

## 50 System Architecture Description CCS System - Annex A Traceability Report



# System Architecture Description CCS System - Annex A Traceability Report

## Copyright

Brussels: Europe's Rail Joint Undertaking, 2025

© Europe's Rail Joint Undertaking, 2025

This document is drafted by and belongs to EU Rail.

EU Rail encourages the distribution and re-use of this document, the technical specifications and the information it contains. EU Rail holds several intellectual property rights, such as copyright and trade mark rights, which need to be considered when this document is used.

EU Rail authorises you to re-publish, re-use, copy and store this document without changing it, provided that you indicate its source and include the following: EU Rail trade mark, title of the document, year of publication, version of document.

EU Rail makes no representation or warranty as to the accuracy or completeness of the information contained within these documents. EU Rail shall have no liability to any party as a result of the use of the information contained herein. EU Rail will have no liability whatsoever for any indirect or consequential loss or damage, and any such liability is expressly excluded.

You may study, research, implement, adapt, improve and otherwise use the information, the content and the models in the this document for your own purposes. If you decide to publish or disclose any adapted, modified or improved version of this document, any amended implementation or derivative work, then you must indicate that you have modified this document, with a reference to the document name and the terms of use of this document. You may not use EU Rail's trade marks or name in any way that may state or suggest, directly or indirectly, that EU Rail is the author of your adaptations.









EU Rail cannot be held responsible for your product, even if you have used this document and its content. It is your responsibility to verify the quality, completeness and the accuracy of the information you use, for your own purposes.








































**This work is currently a work in progress. The content presented is subject to change as it undergoes further review, refinement, and development. Please do not consider this version as final or authoritative.**











































## Preamble








































This report shows the linking between the System Definition CCS System and the System Architecture Description of the CCS System.






























## Traceability Report

























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-2423 - Set point position	 SPMS-4342 - Set point position (Left to right, Operational plan)	 SPMS-2108 - Sense+Observe point status + _C2P_involved_functions) (Role:	•  SPMS-2098 - CCS System	 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2914 - Sense+Observe position of one point	•  SPMS-2818 - Trackside Assets CS System




























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2125 - Exert force on point rails + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2100 - Point Machine</li> </ul>	 SPMS-2932 - Exert force on point rails	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>
		 SPMS-2132 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2100 - Point Machine</li> </ul>	 SPMS-2942 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-2190 - Control position of one point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2851 - Determine required position of one point machine	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>
	 SPMS-4444 - Set point position	 SPMS-2108 - Sense+Observe point status + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2125 - Exert force on point rails + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2100 - Point Machine</li> </ul>	 SPMS-2932 - Exert force on point rails	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>
		 SPMS-2132 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2100 - Point Machine</li> </ul>	 SPMS-2942 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
				 SPMS-5265 - Control target state of one point	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-2190 - Control position of one point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2851 - Determine required position of one point machine   SPMS-5265 - Control target state of one point	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2237 - Actual physical point machine position + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2202 - I_PointMachine_P3</li> </ul>	 SPMS-5815 - Actual physical point machine position	<ul style="list-style-type: none"> <li> SPMS-2967 - I_PointMachine_P3</li> </ul>
		 SPMS-2311 - Observed point status + (Role: _C2P_involved_links)		 SPMS-3228 - Observed point position	<ul style="list-style-type: none"> <li> SPMS-2953 - I_CCS_2</li> </ul>
		 SPMS-2312 - Observed point status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2198 - HMI_Signaller</li> </ul>	 SPMS-3189 - Observed point status	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>
		 SPMS-2350 - Required operational traffic plan + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2200 - I_TrafficManagementSystem</li> </ul>	 SPMS-4546 - Required operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
		 SPMS-2361 - Required point machine movement + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2202 - I_PointMachine_P3</li> </ul>	 SPMS-3008 - Required point machine position	<ul style="list-style-type: none"> <li> SPMS-2967 - I_PointMachine_P3</li> </ul>
		 SPMS-4628 - Requested point position + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2198 - HMI_Signaller</li> </ul>	 SPMS-5275 - Requested point position	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>
		 SPMS-4799 - Exerted force + (Role: _C2P_involved_links)		 SPMS-5273 - Exerted force	
		 SPMS-5329 - Observed point status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2200 - I_TrafficManagementSystem</li> </ul>	 SPMS-5339 - Observed point status	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
			<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>







































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-4769 - Set point position (Left to right, Signaller request)	 SPMS-2108 - Sense+Observe point status + (Role: _C2P_involved_functions)		 SPMS-2914 - Sense+Observe position of one point	 SPMS-2818 - Trackside Assets CS System
		 SPMS-2125 - Exert force on point rails + (Role: _C2P_involved_functions)	 SPMS-2100 - Point Machine	 SPMS-2932 - Exert force on point rails	 SPMS-2812 - Point Machine
		 SPMS-2132 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	 SPMS-2100 - Point Machine	 SPMS-2942 - Has physical behaviour moves+lies+is locked	 SPMS-2812 - Point Machine
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2190 - Control position of one point + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2851 - Determine required position of one point machine	 SPMS-2818 - Trackside Assets CS System
				 SPMS-5265 - Control target state of one point	 SPMS-2823 - Traffic CS System
 SPMS-2424 - Paused Activate level crossing	SPMS-4332 - Paused Activate level crossing (Activation before granting MA without restrictions)	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2836 - Control relative traction and braking effort manually	 SPMS-2822 - Driver
		 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2092 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
					 SPMS-2823 - Traffic CS System
































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2874 - Control track path allocation for movement permissions	
				 SPMS-2897 - Supervise standstill of one train	<ul style="list-style-type: none"> <li>  SPMS-2807 - Train CS System           </li> </ul>
				 SPMS-2921 - Supervise compliance of speed profiles of one train	<ul style="list-style-type: none"> <li>  SPMS-2807 - Train CS System           </li> </ul>
				 SPMS-7115 - Acknowledge train data	<ul style="list-style-type: none"> <li>  SPMS-2823 - Traffic CS System           </li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2097 - Traffic Management System           </li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2813 - Traffic Management System           </li> </ul>
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2092 - Level Crossing Protection Facility           </li> </ul>	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li>  SPMS-2817 - Level Crossing Protection Facility           </li> </ul>
		 SPMS-2187 - Paused Control level crossing protection state + (Role: _C2P_involved_functions)		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-4445 - Paused Activate level crossing	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2092 - Level Crossing Protection Facility           </li> </ul>	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li>  SPMS-2817 - Level Crossing Protection Facility           </li> </ul>
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li>  SPMS-2092 - Level Crossing Protection Facility           </li> </ul>	 SPMS-2917 - Paused Sense+Observe specific	<ul style="list-style-type: none"> <li>  SPMS-2817 - Level Crossing Protection Facility           </li> </ul>

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		level crossing protection facility state	
		 SPMS-2187 - Paused Control level crossing protection state + _C2P_involved_functions) (Role:		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-2191 - Paused Observe level crossing protection status + _C2P_involved_functions) (Role:		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-2298 - Paused Observed level crossing protection facility state + _C2P_involved_links) (Role:		 SPMS-3159 - Paused Observed level crossing protection facility state	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)
		 SPMS-2314 - Paused Observed level crossing protection facility state + _C2P_involved_links) (Role:		 SPMS-6590 - Paused Observed level crossing protection facility state	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)
		 SPMS-2364 - Paused Required protection facility state + (Role: _C2P_involved_links)		 SPMS-3010 - Paused Required protection facility state	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)
		 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + _C2P_involved_functions) (Role:	•  SPMS-2092 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + _C2P_involved_functions) (Role:	•  SPMS-2092 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2187 - Paused Control level crossing protection state		 SPMS-2856 - Paused Determine required protection state of one	











































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ (Role: _C2P_involved_functions)		level crossing protection facility	
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-5966 - Paused Activate level crossing (Signaller request)	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-2092 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-2092 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2187 - Paused Control level crossing protection state + (Role: _C2P_involved_functions)		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-2425 - Perform train joining				
	 SPMS-2426 - Exit CCS area of control				
 SPMS-2427 - Execute start of mission	 SPMS-4339 - Execute start of mission	 SPMS-2109 - Toggle train cab + (Role: _C2P_involved_functions)	•  SPMS-2096 - Driver	 SPMS-2947 - Toggle train cab	•  SPMS-2822 - Driver
			•  SPMS-2098 - CCS System		•  SPMS-2807 - Train CS System







































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2110 - <a href="#">Control voice communication</a> + (Role: _C2P_involved_functions)		 SPMS-6933 - <a href="#">Control voice communication for one train</a>	
		 SPMS-2126 - <a href="#">Control start of mission activities manually</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2096 - <a href="#">Driver</a></li> </ul>	 SPMS-2852 - <a href="#">Control start of mission activities</a>	<ul style="list-style-type: none"> <li>•  SPMS-2822 - <a href="#">Driver</a></li> </ul>
		 SPMS-2137 - <a href="#">Ensure safe movement of trains</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2098 - <a href="#">CCS System</a></li> </ul>	 SPMS-2872 - <a href="#">Calculate safe speed profiles of one train</a>	<ul style="list-style-type: none"> <li>•  SPMS-2807 - <a href="#">Train CS System</a></li> </ul>
				 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2897 - <a href="#">Supervise standstill of one train</a>	<ul style="list-style-type: none"> <li>•  SPMS-2807 - <a href="#">Train CS System</a></li> </ul>
				 SPMS-2921 - <a href="#">Supervise compliance of speed profiles of one train</a>	<ul style="list-style-type: none"> <li>•  SPMS-2807 - <a href="#">Train CS System</a></li> </ul>
				 SPMS-7115 - <a href="#">Acknowledge train data</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-2148 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2097 - <a href="#">Traffic Management System</a></li> </ul>	 SPMS-2843 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"> <li>•  SPMS-2813 - <a href="#">Traffic Management System</a></li> </ul>
		 SPMS-2163 - <a href="#">Control cab mode of one train</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2094 - <a href="#">Rolling Stock Operation System</a></li> </ul>	 SPMS-2936 - <a href="#">Control cab mode of one train</a>	<ul style="list-style-type: none"> <li>•  SPMS-2820 - <a href="#">Rolling Stock Operation System</a></li> </ul>
		 SPMS-2167 - <a href="#">Supervise state of railway operation</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2090 - <a href="#">Signaller</a></li> </ul>	 SPMS-2853 - <a href="#">Supervise state of the railway</a>	<ul style="list-style-type: none"> <li>•  SPMS-2827 - <a href="#">Signaller</a></li> </ul>
		 SPMS-2174 - <a href="#">Use system voice communication</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2096 - <a href="#">Driver</a></li> </ul>	 SPMS-6952 - <a href="#">Use system voice communication</a>	<ul style="list-style-type: none"> <li>•  SPMS-2822 - <a href="#">Driver</a></li> </ul>
		 SPMS-2192 - <a href="#">Sense+Observe motion of one train</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2098 - <a href="#">CCS System</a></li> </ul>	 SPMS-2878 - <a href="#">Determine position and state of one train</a>	<ul style="list-style-type: none"> <li>•  SPMS-2807 - <a href="#">Train CS System</a></li> </ul>
























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	 SPMS-2807 - Train CS System
				 SPMS-2892 - Measure+Estimate 1D speed of one train front end	 SPMS-2807 - Train CS System
				 SPMS-2919 - Sense+Observe track vacancy proving section state	 SPMS-2818 - Trackside Assets CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
	 SPMS-4443 - Execute start of mission	 SPMS-6821 - Control registration of functional number + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6935 - Control registration of functional number	 SPMS-2822 - Driver
		 SPMS-2109 - Toggle train cab + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2947 - Toggle train cab	 SPMS-2822 - Driver
		 SPMS-2126 - Control start of mission activities manually + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2852 - Control start of mission activities	 SPMS-2822 - Driver
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2163 - Control cab mode of one train + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-2936 - Control cab mode of one train	 SPMS-2820 - Rolling Stock Operation System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2174 - Use system voice communication + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6952 - Use system voice communication	 SPMS-2822 - Driver
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2878 - Determine position and state of one train	 SPMS-2807 - Train CS System
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	 SPMS-2807 - Train CS System
				 SPMS-2892 - Measure+Estimate 1D speed of one train front end	 SPMS-2807 - Train CS System
				 SPMS-2919 - Sense+Observe track vacancy proving section state	 SPMS-2818 - Trackside Assets CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2235 - Required cab status + (Role: _C2P_involved_links)		 SPMS-2992 - Required cab status	
		 SPMS-2300 - Estimated motion state + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3050 - Aggregated track occupancy and train status information	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2323 - Indicated start of mission data + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3188 - Indicated start of mission data	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2330 - Estimated motion state + (Role: _C2P_involved_links)	 SPMS-2198 - HMI_Signaller	 SPMS-4666 - Aggregated track occupancy and train status information	 SPMS-2963 - HMI_Signaller_01
		 SPMS-2341 - Provided driver information + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3239 - Provided driver information	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-6930 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-6992 - Calculated supervision limits	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-6978 - Reported cab status + (Role: _C2P_involved_links)	 SPMS-2197 - I_SUBSET_034_119	 SPMS-2995 - Reported cab status	 SPMS-2971 - I_SUBSET_034_119
		 SPMS-7178 - Provided driver information + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-7766 - Provided driver information	 SPMS-2961 - DMI_Driver_Machine_Interface
 SPMS-2428 - Activate configuration data	 SPMS-4331 - Activate configuration data (Infrastructure Data)	 SPMS-2128 - Provide+sign configuration data + (Role: _C2P_involved_functions)	 SPMS-2088 - Data Preparation	 SPMS-5395 - Provide+sign configuration data	 SPMS-5390 - Data Preparation
		 SPMS-2129 - Prepare+Supervise distribution of the configuration data	 SPMS-2103 - Configuration Manager	 SPMS-5400 - Prepare+Supervise	 SPMS-5389 - Configuration Manager




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		distribution of the configuration data	
		 SPMS-2131 - Provide planned activation time for infrastructure + _C2P_involved_functions) (Role:	•  SPMS-2097 - Traffic Management System	 SPMS-5399 - Provide planned activation time	•  SPMS-2813 - Traffic Management System
		 SPMS-2182 - Maintain configuration data + _C2P_involved_functions) (Role:	•  SPMS-2098 - CCS System	 SPMS-2834 - Maintain configuration data	•  SPMS-2819 - Transversal CCS System
				 SPMS-2840 - Maintain Traffic CS System configuration data	•  SPMS-2823 - Traffic CS System
				 SPMS-6534 - Maintain Trackside Assets CS System configuration data	•  SPMS-2818 - Trackside Assets CS System
				 SPMS-7248 - Maintain Train CS System configuration data	•  SPMS-2807 - Train CS System
	 SPMS-5968 - Activate configuration data (Vehicle Data)	 SPMS-6241 - Check+Sign configuration data + _C2P_involved_functions) (Role:	•  SPMS-6240 - Integrator	 SPMS-6883 - Check+Sign configuration data	•  SPMS-6882 - Integrator
		 SPMS-6518 - Provide configuration data + _C2P_involved_functions) (Role:	•  SPMS-6240 - Integrator	 SPMS-6885 - Provide configuration data	•  SPMS-6882 - Integrator
		 SPMS-2128 - Provide+sign configuration data + _C2P_involved_functions) (Role:	•  SPMS-2088 - Data Preparation	 SPMS-5395 - Provide+sign configuration data	•  SPMS-5390 - Data Preparation
		 SPMS-2129 - Prepare+Supervise distribution of the configuration data + _C2P_involved_functions) (Role:	•  SPMS-2103 - Configuration Manager	 SPMS-5400 - Prepare+Supervise distribution of the configuration data	•  SPMS-5389 - Configuration Manager
		 SPMS-2182 - Maintain configuration data + _C2P_involved_functions) (Role:	•  SPMS-2098 - CCS System	 SPMS-2834 - Maintain configuration data	•  SPMS-2819 - Transversal CCS System
				 SPMS-2840 - Maintain Traffic CS System configuration data	•  SPMS-2823 - Traffic CS System







































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-6534 - Maintain Trackside Assets CS System configuration data	 SPMS-2818 - Trackside Assets CS System
				 SPMS-7248 - Maintain Train CS System configuration data	 SPMS-2807 - Train CS System
		 SPMS-6241 - Check+Sign configuration data + (Role: _C2P_involved_functions)	 SPMS-6240 - Integrator	 SPMS-6883 - Check+Sign configuration data	 SPMS-6882 - Integrator
		 SPMS-6518 - Provide configuration data + (Role: _C2P_involved_functions)	 SPMS-6240 - Integrator	 SPMS-6885 - Provide configuration data	 SPMS-6882 - Integrator
		 SPMS-6570 - Provide planned activation time for vehicle + (Role: _C2P_involved_functions)	 SPMS-5084 - Railway Undertaking IT-System	 SPMS-6886 - Provide planned activation time for vehicle	 SPMS-5392 - Railway Undertaking IT-System
 SPMS-2429 - Handover from one CCS instance to the next CCS instance					
 SPMS-2430 - Perform train splitting					
 SPMS-2431 - Perform train recovery					
 SPMS-2432 - Paused Deactivate level crossing	 SPMS-4346 - Paused Deactivate level crossing (Train passed)	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2092 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2092 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2187 - Paused Control level crossing protection state + (Role: _C2P_involved_functions)		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	











































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-4449 - Paused Deactivate level crossing	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-2092 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-2092 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2187 - Paused Control level crossing protection state + (Role: _C2P_involved_functions)		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-2298 - Paused Observed level crossing protection facility state + (Role: _C2P_involved_links)		 SPMS-3159 - Paused Observed level crossing protection facility state	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)
		 SPMS-2314 - Paused Observed level crossing protection facility state + (Role: _C2P_involved_links)		 SPMS-6590 - Paused Observed level crossing protection facility state	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)

















































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2364 - Paused Required protection facility state + (Role: _C2P_involved_links)		 SPMS-3010 - Paused Required protection facility state	 SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)
	 SPMS-5967 - Paused Deactivate level crossing (Signaller request)	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2092 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2092 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2187 - Paused Control level crossing protection state + (Role: _C2P_involved_functions)		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-2433 - Recover from degraded situation				
	 SPMS-2434 - Manage failure / incident / Respond to non-regular situation				
 SPMS-2435 - Perform system asset diagnosis	 SPMS-4343 - Perform system asset diagnosis	 SPMS-2111 - Plan maintenance tasks+Manage asset + (Role: _C2P_involved_functions)	 SPMS-6204 - Asset Management System	 SPMS-4503 - Plan maintenance tasks+Manage asset	 SPMS-6528 - Asset Management System
		 SPMS-2121 - Monitor+Evaluate system asset state + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2895 - Monitor+Store Traffic CS System asset state	 SPMS-2823 - Traffic CS System






















































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4502 - Monitor+Evaluate system asset state	 SPMS-2819 - Transversal CCS System
				 SPMS-6533 - Monitor+Store Trackside Assets CS System asset state	 SPMS-2818 - Trackside Assets CS System
				 SPMS-6884 - Monitor+Store Train CS System asset state	 SPMS-2807 - Train CS System
		 SPMS-6206 - Analyse Infrastructure Manager system asset state + (Role: _C2P_involved_functions)	 SPMS-6202 - Infrastructure Management Diagnostic System	 SPMS-6529 - Analyse Infrastructure Manager system asset state	 SPMS-6526 - Infrastructure Management Diagnostic System
		 SPMS-6207 - Analyse Railway Undertaking system asset state + (Role: _C2P_involved_functions)	 SPMS-6203 - Railway Undertaking Diagnostic System	 SPMS-6530 - Analyse Railway Undertaking system asset state	 SPMS-6527 - Railway Undertaking Diagnostic System
		 SPMS-6482 - Monitor system asset state information + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-6532 - Monitor system asset state information	 SPMS-2827 - Signaller
		 SPMS-7317 - Carry out maintenance task + (Role: _C2P_involved_functions)	 SPMS-6160 - Field Force	 SPMS-7319 - Carry out maintenance tasks	 SPMS-2808 - Field Force
	 SPMS-4439 - Perform system asset diagnosis	 SPMS-2111 - Plan maintenance tasks+Manage asset + (Role: _C2P_involved_functions)	 SPMS-6204 - Asset Management System	 SPMS-4503 - Plan maintenance tasks+Manage asset	 SPMS-6528 - Asset Management System
		 SPMS-2121 - Monitor+Evaluate system asset state + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2895 - Monitor+Store Traffic CS System asset state	 SPMS-2823 - Traffic CS System
				 SPMS-4502 - Monitor+Evaluate system asset state	 SPMS-2819 - Transversal CCS System
				 SPMS-6533 - Monitor+Store Trackside	 SPMS-2818 - Trackside Assets CS System




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				Assets CS System asset state	
				 SPMS-6884 - Monitor+Store Train CS System asset state	 SPMS-2807 - Train CS System
		 SPMS-2296 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-6229 - I_AssetManagementSystem	 SPMS-4507 - Evaluated system asset state	 SPMS-6564 - I_AssetManagementSystem
		 SPMS-4496 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-2198 - HMI_Signaller	 SPMS-6556 - Evaluated system asset state	 SPMS-6580 - HMI_Signaller_02
		 SPMS-6206 - Analyse Infrastructure Manager system asset state + (Role: _C2P_involved_functions)	 SPMS-6202 - Infrastructure Management Diagnostic System	 SPMS-6529 - Analyse Infrastructure Manager system asset state	 SPMS-6526 - Infrastructure Management Diagnostic System
		 SPMS-6207 - Analyse Railway Undertaking system asset state + (Role: _C2P_involved_functions)	 SPMS-6203 - Railway Undertaking Diagnostic System	 SPMS-6530 - Analyse Railway Undertaking system asset state	 SPMS-6527 - Railway Undertaking Diagnostic System
		 SPMS-6209 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-6230 - I_InfrastructureManagementDiagnosticSystem	 SPMS-6558 - Evaluated system asset state	 SPMS-6565 - I_InfrastructureManagementDiagnosticSystem
		 SPMS-6210 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-6231 - I_RailwayUndertakingDiagnosticSystem	 SPMS-6559 - Evaluated system asset state	 SPMS-6566 - I_RailwayUndertakingDiagnosticSystem
		 SPMS-6232 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-2199 - HMI_FieldForce	 SPMS-6560 - Evaluated system asset state	 SPMS-7320 - HMI_FieldForce_02
		 SPMS-6242 - Logistic data + (Role: _C2P_involved_links)	 SPMS-6229 - I_AssetManagementSystem	 SPMS-6555 - Logistic data	 SPMS-6564 - I_AssetManagementSystem
		 SPMS-6482 - Monitor system asset state information + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-6532 - Monitor system asset state information	 SPMS-2827 - Signaller

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	 SPMS-6513 - Perform system asset diagnosis (Logistic data)	 SPMS-7317 - Carry out maintenance task + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6160 - Field Force</li> </ul>	 SPMS-7319 - Carry out maintenance tasks	<ul style="list-style-type: none"> <li> SPMS-2808 - Field Force</li> </ul>
		 SPMS-2111 - Plan maintenance tasks+Manage asset + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6204 - Asset Management System</li> </ul>	 SPMS-4503 - Plan maintenance tasks+Manage asset	<ul style="list-style-type: none"> <li> SPMS-6528 - Asset Management System</li> </ul>
		 SPMS-2121 - Monitor+Evaluate system asset state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2895 - Monitor+Store Traffic CS System asset state	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-4502 - Monitor+Evaluate system asset state	<ul style="list-style-type: none"> <li> SPMS-2819 - Transversal CCS System</li> </ul>
				 SPMS-6533 - Monitor+Store Trackside Assets CS System asset state	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>
				 SPMS-6884 - Monitor+Store Train CS System asset state	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
 SPMS-2436 - Deactivate usage restriction	 SPMS-4345 - Deactivate usage restriction (Planned usage restriction)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
	 SPMS-4828 - Deactivate usage restriction	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	•  SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-2215 - Usage restriction state + (Role: _C2P_involved_links)	•  SPMS-2200 - I_TrafficManagementSystem	 SPMS-3173 - Usage restriction state	•  SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2219 - Usage restriction state + (Role: _C2P_involved_links)	•  SPMS-2198 - HMI_Signaller	 SPMS-3174 - Usage restriction state	•  SPMS-2963 - HMI_Signaller_01
		 SPMS-4824 - Provided usage restriction state + (Role: _C2P_involved_links)	•  SPMS-2198 - HMI_Signaller	 SPMS-3078 - Provided usage restriction state	•  SPMS-2963 - HMI_Signaller_01
	 SPMS-7232 - Deactivate usage restriction (Unplanned TSR)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2929 - Control usage restrictions	•  SPMS-2823 - Traffic CS System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	•  SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
 SPMS-2437 - Entry CCS area of control					
 SPMS-2438 - Activate usage restriction	 SPMS-4435 - Activate usage restriction	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2929 - Control usage restrictions	•  SPMS-2823 - Traffic CS System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	•  SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-2215 - Usage restriction state + (Role: _C2P_involved_links)	•  SPMS-2200 - I_TrafficManagementSystem	 SPMS-3173 - Usage restriction state	•  SPMS-2958 - I_TrafficManagementSystem_01

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2219 - Usage restriction state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-2198 - HMI_Signaller</li> </ul>	 SPMS-3174 - Usage restriction state	<ul style="list-style-type: none"> <li>•  SPMS-2963 - HMI_Signaller_01</li> </ul>
		 SPMS-2357 - Required operational traffic plan + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-2200 - I_TrafficManagementSystem</li> </ul>	 SPMS-2988 - Required operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
		 SPMS-4824 - Provided usage restriction state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-2198 - HMI_Signaller</li> </ul>	 SPMS-3078 - Provided usage restriction state	<ul style="list-style-type: none"> <li>•  SPMS-2963 - HMI_Signaller_01</li> </ul>
	 SPMS-5753 - Activate usage restriction (Planned usage restriction)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>
	 SPMS-7226 - Activate usage restriction (Unplanned TSR)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>
	 SPMS-2439 - Execute end of mission	 SPMS-2109 - Toggle train cab + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2096 - Driver</li> </ul>	 SPMS-2947 - Toggle train cab	<ul style="list-style-type: none"> <li>•  SPMS-2822 - Driver</li> </ul>
		 SPMS-2110 - Control voice communication + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>	 SPMS-6933 - Control voice communication for one train	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>
			<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>		<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)		 SPMS-2872 - Calculate safe speed profiles of one train	
				 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	•  SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	•  SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	•  SPMS-2823 - Traffic CS System
		 SPMS-2146 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	•  SPMS-2094 - Rolling Stock Operation System	 SPMS-2837 - Implement specific traction and braking effort	•  SPMS-2820 - Rolling Stock Operation System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-2163 - Control cab mode of one train + (Role: _C2P_involved_functions)	•  SPMS-2094 - Rolling Stock Operation System	 SPMS-2936 - Control cab mode of one train	•  SPMS-2820 - Rolling Stock Operation System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	•  SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2878 - Determine position and state of one train	•  SPMS-2807 - Train CS System
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	•  SPMS-2807 - Train CS System
				 SPMS-2892 - Measure+Estimate 1D	•  SPMS-2807 - Train CS System









































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				speed of one train front end	
				 SPMS-2919 - Sense+Observe track vacancy proving section state	 SPMS-2818 - Trackside Assets CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-6817 - Control power of one train + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-6932 - Control power of one train	 SPMS-2820 - Rolling Stock Operation System
		 SPMS-6819 - Switch train power + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6931 - Switch train power	 SPMS-2822 - Driver
		 SPMS-6821 - Control registration of functional number + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6935 - Control registration of functional number	 SPMS-2822 - Driver
	 SPMS-4442 - Execute end of mission	 SPMS-2109 - Toggle train cab + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2947 - Toggle train cab	 SPMS-2822 - Driver
		 SPMS-2110 - Control voice communication + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-6933 - Control voice communication for one train	 SPMS-2807 - Train CS System
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2921 - Supervise compliance of speed profiles of one train	•  SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	•  SPMS-2823 - Traffic CS System
		 SPMS-2146 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	•  SPMS-2094 - Rolling Stock Operation System	 SPMS-2837 - Implement specific traction and braking effort	•  SPMS-2820 - Rolling Stock Operation System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-2163 - Control cab mode of one train + (Role: _C2P_involved_functions)	•  SPMS-2094 - Rolling Stock Operation System	 SPMS-2936 - Control cab mode of one train	•  SPMS-2820 - Rolling Stock Operation System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	•  SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2878 - Determine position and state of one train	•  SPMS-2807 - Train CS System
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	•  SPMS-2807 - Train CS System
				 SPMS-2892 - Measure+Estimate 1D speed of one train front end	•  SPMS-2807 - Train CS System
				 SPMS-2919 - Sense+Observe track vacancy proving section state	•  SPMS-2818 - Trackside Assets CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System










































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2235 - Required cab status + (Role: _C2P_involved_links)		 SPMS-2992 - Required cab status	
		 SPMS-2300 - Estimated motion state + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3050 - Aggregated track occupancy and train status information	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2303 - Estimated motion state + (Role: _C2P_involved_links)		 SPMS-3021 - Aggregated track occupancy and train status information	
		 SPMS-2330 - Estimated motion state + (Role: _C2P_involved_links)	 SPMS-2198 - HMI_Signaller	 SPMS-4666 - Aggregated track occupancy and train status information	 SPMS-2963 - HMI_Signaller_01
		 SPMS-6817 - Control power of one train + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-6932 - Control power of one train	 SPMS-2820 - Rolling Stock Operation System
		 SPMS-6819 - Switch train power + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6931 - Switch train power	 SPMS-2822 - Driver
		 SPMS-6821 - Control registration of functional number + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6935 - Control registration of functional number	 SPMS-2822 - Driver
		 SPMS-6876 - Required power status + (Role: _C2P_involved_links)		 SPMS-6939 - Required power status	
		 SPMS-6878 - Provided functional number + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-6942 - Provided functional number	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-6879 - Reported cab status + (Role: _C2P_involved_links)	 SPMS-2197 - I_SUBSET_034_119	 SPMS-6959 - Reported cab status	 SPMS-2971 - I_SUBSET_034_119









































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6951 - Required state of full service brake or traction cut off or emergency brake + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2197 - I_SUBSET_034_119</li> </ul>	 SPMS-3020 - Required state of full service brake or traction cut off or emergency brake	<ul style="list-style-type: none"> <li> SPMS-2971 - I_SUBSET_034_119</li> </ul>
				 SPMS-3022 - Required state of parking brake or emergency brake	<ul style="list-style-type: none"> <li> SPMS-2971 - I_SUBSET_034_119</li> </ul>
		 SPMS-6967 - Indicated functional number + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2204 - DMI_Driver_Machine_Interface</li> </ul>	 SPMS-6975 - Indicated functional number	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>
		 SPMS-6969 - Main power status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2197 - I_SUBSET_034_119</li> </ul>	 SPMS-6974 - Main power status	<ul style="list-style-type: none"> <li> SPMS-2971 - I_SUBSET_034_119</li> </ul>
		 SPMS-6978 - Reported cab status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2197 - I_SUBSET_034_119</li> </ul>	 SPMS-2995 - Reported cab status	<ul style="list-style-type: none"> <li> SPMS-2971 - I_SUBSET_034_119</li> </ul>
				 SPMS-6236 - Activated cab status	<ul style="list-style-type: none"> <li> SPMS-2971 - I_SUBSET_034_119</li> </ul>
 SPMS-2440 - Perform train movement	 SPMS-4436 - Perform train movement	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2146 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2094 - Rolling Stock Operation System</li> </ul>	 SPMS-2837 - Implement specific traction and braking effort	<ul style="list-style-type: none"> <li> SPMS-2820 - Rolling Stock Operation System</li> </ul>
		 SPMS-2366 - Required relative traction and brake effort manually + (Role: _C2P_involved_links)		 SPMS-3012 - Required relative traction and brake effort manually	
	 SPMS-5541 - Perform train movement	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2146 - Implement specific traction and braking effort	<ul style="list-style-type: none"> <li> SPMS-2094 - Rolling Stock Operation System</li> </ul>		<ul style="list-style-type: none"> <li> SPMS-2820 - Rolling Stock Operation System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		SPMS-2837 - Implement specific traction and braking effort	
		SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	• SPMS-2098 - CCS System	SPMS-2862 - Calculate information to support driving	• SPMS-2807 - Train CS System
		SPMS-2177 - Supervise passenger exchange + _C2P_involved_functions) (Role:	• SPMS-2096 - Driver	SPMS-5332 - Generate train-specific timetable information	• SPMS-2823 - Traffic CS System
	SPMS-6577 - Perform train movement (Meeting, status of waiting consist is known / partly known)	SPMS-2106 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role:	• SPMS-2096 - Driver	SPMS-2836 - Control relative traction and braking effort manually	• SPMS-2822 - Driver
		SPMS-2146 - Implement specific traction and braking effort + _C2P_involved_functions) (Role:	• SPMS-2094 - Rolling Stock Operation System	SPMS-2837 - Implement specific traction and braking effort	• SPMS-2820 - Rolling Stock Operation System
	SPMS-6578 - Perform train movement (Meeting, status of waiting consist is not known)	SPMS-2106 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role:	• SPMS-2096 - Driver	SPMS-2836 - Control relative traction and braking effort manually	• SPMS-2822 - Driver
		SPMS-2146 - Implement specific traction and braking effort + _C2P_involved_functions) (Role:	• SPMS-2094 - Rolling Stock Operation System	SPMS-2837 - Implement specific traction and braking effort	• SPMS-2820 - Rolling Stock Operation System
	SPMS-2441 - Perform operational plan movement	SPMS-4437 - Perform operational plan movement			
	SPMS-5702 - Perform operational plan movement	SPMS-2148 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	• SPMS-2097 - Traffic Management System	SPMS-2843 - Calculate operational traffic plan	• SPMS-2813 - Traffic Management System
	SPMS-2442 - Shorten movement permission	SPMS-2106 - Control relative traction and braking effort manually	• SPMS-2096 - Driver	SPMS-2836 - Control relative traction and braking effort manually	• SPMS-2822 - Driver












































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	(Operational plan change, accepted)	+ _C2P_involved_functions) (Role:			
		 SPMS-2137 - Ensure safe movement of trains + _C2P_involved_functions) (Role:	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
	 SPMS-4334 - Shorten movement permission (Signaller request, accepted)	 SPMS-2148 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2106 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role:	 SPMS-2096 - Driver	 SPMS-2836 - Control relative traction and braking effort manually	 SPMS-2822 - Driver
		 SPMS-2137 - Ensure safe movement of trains + _C2P_involved_functions) (Role:	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
	 SPMS-4336 - Shorten movement permission (Operational plan change, rejected)	 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
	 SPMS-4337 - Shorten movement permission (Signaller request, rejected)	 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
	 SPMS-4441 - Shorten movement permission	 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2836 - Control relative traction and braking effort manually	 SPMS-2822 - Driver
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2862 - Calculate information to support driving	 SPMS-2807 - Train CS System



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2180 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2870 - Control automatic driving speed of one train	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
		 SPMS-2249 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3052 - Allocated track path	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2326 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3191 - Calculated supervision limits	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2347 - Requested track path + (Role: _C2P_involved_links)	 SPMS-2198 - HMI_Signaller	 SPMS-3123 - Requested track path	 SPMS-2963 - HMI_Signaller_01
		 SPMS-2351 - Required operational traffic plan + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3079 - Required operational traffic plan	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2354 - Required operational traffic plan + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3182 - Generated train-specific timetable and infrastructure information	 SPMS-2952 - I_CCS_1
				 SPMS-5333 - Required operational traffic plan	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2360 - Required operational traffic plan + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3067 - Generated train-specific timetable information	 SPMS-2952 - I_CCS_1
				 SPMS-5333 - Required operational traffic plan	 SPMS-2958 - I_TrafficManagementSystem_01







































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-7230 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2198 - HMI_Signaller           </li> </ul>	 SPMS-3044 - Allocated track path	<ul style="list-style-type: none"> <li>  SPMS-2963 - HMI_Signaller_01           </li> </ul>
 SPMS-2443 - Localise train on railway infrastructure	 SPMS-4329 - Localise train on railway infrastructure	 SPMS-2127 - Has acceleration vector in relation to rolling stock coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2091 - Rolling Stock Reference Point           </li> </ul>	 SPMS-2937 - Has acceleration vector in relation to rolling stock coordinates	<ul style="list-style-type: none"> <li>  SPMS-2809 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-2135 - Has position in relation to geographical coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2091 - Rolling Stock Reference Point           </li> </ul>	 SPMS-2945 - Has position in relation to geographical coordinates	<ul style="list-style-type: none"> <li>  SPMS-2809 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-2138 - Has position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2091 - Rolling Stock Reference Point           </li> </ul>	 SPMS-2949 - Has position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-2809 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-2140 - Has velocity in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2091 - Rolling Stock Reference Point           </li> </ul>	 SPMS-2951 - Has velocity in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-2809 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-2141 - Has wheel position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2101 - Wheel           </li> </ul>	 SPMS-2833 - Has wheel position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-2829 - Wheel           </li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2097 - Traffic Management System           </li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2813 - Traffic Management System           </li> </ul>
		 SPMS-2158 - Supervise guideway of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2096 - Driver           </li> </ul>	 SPMS-2933 - Supervise guideway of one train	<ul style="list-style-type: none"> <li>  SPMS-2822 - Driver           </li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2090 - Signaller           </li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>  SPMS-2827 - Signaller           </li> </ul>
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2098 - CCS System           </li> </ul>	 SPMS-2878 - Determine position and state of one train	<ul style="list-style-type: none"> <li>  SPMS-2807 - Train CS System           </li> </ul>
					<ul style="list-style-type: none"> <li>  SPMS-2807 - Train CS System           </li> </ul>




































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	
				 SPMS-2892 - Measure+Estimate 1D speed of one train front end	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2919 - Sense+Observe track vacancy proving section state	<ul style="list-style-type: none"> <li>•  SPMS-2818 - Trackside Assets CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-7115 - Acknowledge train data	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
	 SPMS-4438 - Localise train on railway infrastructure	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li>•  SPMS-2822 - Driver</li> </ul>
		 SPMS-2127 - Has acceleration vector in relation to rolling stock coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2091 - Rolling Stock Reference Point</li> </ul>	 SPMS-2937 - Has acceleration vector in relation to rolling stock coordinates	<ul style="list-style-type: none"> <li>•  SPMS-2809 - Rolling Stock Reference Point</li> </ul>
		 SPMS-2135 - Has position in relation to geographical coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2091 - Rolling Stock Reference Point</li> </ul>	 SPMS-2945 - Has position in relation to geographical coordinates	<ul style="list-style-type: none"> <li>•  SPMS-2809 - Rolling Stock Reference Point</li> </ul>
		 SPMS-2138 - Has position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2091 - Rolling Stock Reference Point</li> </ul>	 SPMS-2949 - Has position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li>•  SPMS-2809 - Rolling Stock Reference Point</li> </ul>
		 SPMS-2140 - Has velocity in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2091 - Rolling Stock Reference Point</li> </ul>	 SPMS-2951 - Has velocity in relation to track coordinates	<ul style="list-style-type: none"> <li>•  SPMS-2809 - Rolling Stock Reference Point</li> </ul>




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2141 - Has wheel position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2101 - Wheel</li> </ul>	 SPMS-2833 - Has wheel position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li> SPMS-2829 - Wheel</li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2878 - Determine position and state of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2892 - Measure+Estimate 1D speed of one train front end	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2919 - Sense+Observe track vacancy proving section state	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-7115 - Acknowledge train data	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2234 - Actual acceleration + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2196 - I_RollingStockReferencePoint</li> </ul>	 SPMS-2989 - Actual acceleration	<ul style="list-style-type: none"> <li> SPMS-2970 - I_RollingStockReferencePoint</li> </ul>
		 SPMS-2238 - Actual present geographical coordinate + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2196 - I_RollingStockReferencePoint</li> </ul>	 SPMS-3004 - Actual present geographical coordinate	<ul style="list-style-type: none"> <li> SPMS-2970 - I_RollingStockReferencePoint</li> </ul>




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2239 - Actual present position and direction + (Role: _C2P_involved_links)	•  SPMS-2196 - I_RollingStockReferencePoint	 SPMS-3007 - Actual present position and direction in track coordinates	•  SPMS-2970 - I_RollingStockReferencePoint
		 SPMS-2243 - Actual velocity + (Role: _C2P_involved_links)	•  SPMS-2196 - I_RollingStockReferencePoint	 SPMS-3013 - Actual velocity	•  SPMS-2970 - I_RollingStockReferencePoint
		 SPMS-2244 - Actual wheel passing + (Role: _C2P_involved_links)	•  SPMS-2201 - I_Wheel	 SPMS-3015 - Actual wheel passing	•  SPMS-2968 - I_Wheel
		 SPMS-2300 - Estimated motion state + (Role: _C2P_involved_links)	•  SPMS-2200 - I_TrafficManagementSystem	 SPMS-3050 - Aggregated track occupancy and train status information	•  SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2330 - Estimated motion state + (Role: _C2P_involved_links)	•  SPMS-2198 - HMI_Signaller	 SPMS-4666 - Aggregated track occupancy and train status information	•  SPMS-2963 - HMI_Signaller_01
		 SPMS-2336 - Estimated motion state + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-4510 - Estimated speed	•  SPMS-2961 - DMI_Driver_Machine_Interface
 SPMS-3299 - Change of train orientation	 SPMS-4424 - Change of train orientation				
	 SPMS-4520 - Change of train orientation				
 SPMS-3301 - Provide diagnostic and monitoring information (Duplicate with Perform system asset diagnosis)					
 SPMS-3302 - Shutdown train (Duplicate with end of mission)					

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-3303 - tcs_Manage configuration changes (Duplicate with activate configuration data)	 SPMS-4455 - tcs_Manage configuration changes	 SPMS-2834 - Maintain configuration data + _C2P_involved_functions) (Role:	 SPMS-2819 - Transversal CCS System	 SPMS-2182 - Maintain configuration data	 SPMS-2098 - CCS System
				 SPMS-7663 - Maintain configuration data	 SPMS-6294 - Service Function Configuration System
				 SPMS-7691 - Store configuration data	 SPMS-7244 - Configuration Repository
		 SPMS-2840 - Maintain Traffic CS System configuration data + _C2P_involved_functions) (Role:	 SPMS-2823 - Traffic CS System	 SPMS-2182 - Maintain configuration data	 SPMS-2098 - CCS System
				 SPMS-4920 - Maintain European Trackside Protection System configuration data	 SPMS-5062 - European Trackside Protection System
				 SPMS-4922 - Maintain Plan Execution System configuration data	 SPMS-5060 - Plan Execution System
		 SPMS-2993 - Actual state of configuration data + _C2P_involved_links) (Role:	 SPMS-2973 - I_CCS_3	 SPMS-7731 - Actual state of configuration data	 SPMS-6715 - SMI_PES
				 SPMS-7732 - Actual state of configuration data	
		 SPMS-3211 - Activated state of configuration data + _C2P_involved_links) (Role:	 SPMS-2973 - I_CCS_3	 SPMS-7744 - Activated state of configuration data	
 SPMS-3304 - Close train doors	 SPMS-4381 - Close train doors	 SPMS-2862 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2160 - Calculate information to support driving	 SPMS-2098 - CCS System
				 SPMS-4895 - Indicate information to support driving	 SPMS-5073 - Multi Display System
				 SPMS-7838 - Calculate information to support driving	 SPMS-5057 - Automatic Train Operation On-board
			 SPMS-2807 - Train CS System	 SPMS-2107 - Control state of train doors	 SPMS-2098 - CCS System


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to	
		 SPMS-2928 - <i>Control state of train doors</i> + (Role: _C2P_involved_functions)		 SPMS-7843 - <i>Control state of train doors</i>	•  SPMS-5057 - <i>Automatic Train Operation On-board</i>	
		 SPMS-4559 - <i>Implement specific doors state</i> + (Role: _C2P_involved_functions)		•  SPMS-2820 - <i>Rolling Stock Operation System</i>	 SPMS-2114 - <i>Implement specific doors state</i>	•  SPMS-2094 - <i>Rolling Stock Operation System</i>
		 SPMS-4560 - <i>Supervise passenger exchange</i> + (Role: _C2P_involved_functions)		•  SPMS-2822 - <i>Driver</i>	 SPMS-7845 - <i>Implement specific doors state</i>	•  SPMS-5108 - <i>Rolling Stock Operation System</i>
			 SPMS-2177 - <i>Supervise passenger exchange</i>		•  SPMS-2096 - <i>Driver</i>	
		 SPMS-4471 - <i>Close train doors</i>	 SPMS-2843 - <i>Calculate operational traffic plan</i> + (Role: _C2P_involved_functions)	•  SPMS-2813 - <i>Traffic Management System</i>	 SPMS-2148 - <i>Calculate operational traffic plan</i>	•  SPMS-2097 - <i>Traffic Management System</i>
					 SPMS-4875 - <i>Calculate operational traffic plan</i>	•  SPMS-5111 - <i>Traffic Management System</i>
	 SPMS-2862 - <i>Calculate information to support driving</i> + (Role: _C2P_involved_functions)		•  SPMS-2807 - <i>Train CS System</i>	 SPMS-2160 - <i>Calculate information to support driving</i>	•  SPMS-2098 - <i>CCS System</i>	
				 SPMS-4895 - <i>Indicate information to support driving</i>	•  SPMS-5073 - <i>Multi Display System</i>	
				 SPMS-7838 - <i>Calculate information to support driving</i>	•  SPMS-5057 - <i>Automatic Train Operation On-board</i>	
		 SPMS-2928 - <i>Control state of train doors</i> + (Role: _C2P_involved_functions)	•  SPMS-2807 - <i>Train CS System</i>	 SPMS-2107 - <i>Control state of train doors</i>	•  SPMS-2098 - <i>CCS System</i>	



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7843 - Control state of train doors	 SPMS-5057 - Automatic Train Operation On-board
		 SPMS-4559 - Implement specific doors state + _C2P_involved_functions) (Role:	 SPMS-2820 - Rolling Stock Operation System	 SPMS-2114 - Implement specific doors state	 SPMS-2094 - Rolling Stock Operation System
				 SPMS-7845 - Implement specific doors state	 SPMS-5108 - Rolling Stock Operation System
		 SPMS-4560 - Supervise passenger exchange + _C2P_involved_functions) (Role:	 SPMS-2822 - Driver	 SPMS-2177 - Supervise passenger exchange	 SPMS-2096 - Driver
				 SPMS-7851 - Supervise passenger exchange	 SPMS-5105 - Driver
		 SPMS-4561 - Indicated supporting information + _C2P_involved_links) (Role:	 SPMS-2961 - DMI_Driver_Machine_Interface	 SPMS-2329 - Indicated supporting information	 SPMS-2204 - DMI_Driver_Machine_Interface
				 SPMS-7871 - Indicated supporting information	 SPMS-6296 - HMI_Driver_Machine_Interface
		 SPMS-4562 - Observed state of doors + _C2P_involved_links) (Role:	 SPMS-4493 - I_SUBSET_139	 SPMS-2316 - Observed state of doors	 SPMS-2195 - I_SUBSET_139
				 SPMS-7873 - Observed state of doors	
		 SPMS-4564 - Requested state of doors + _C2P_involved_links) (Role:	 SPMS-4493 - I_SUBSET_139	 SPMS-2213 - Requested state of doors	 SPMS-2195 - I_SUBSET_139
				 SPMS-7884 - Requested state of doors	
		 SPMS-4568 - Requested state of doors + _C2P_involved_links) (Role:		 SPMS-2346 - Requested state of doors manually	
				 SPMS-7883 - Requested state of doors	





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6525 - Observed state of doors + (Role: _C2P_involved_links)	 SPMS-4493 - I_SUBSET_139	 SPMS-6515 - Observed state of doors	 SPMS-2195 - I_SUBSET_139
				 SPMS-7874 - Observed state of doors	
 SPMS-3305 - Grant movement permission	 SPMS-4462 - Grant movement permission	 SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2822 - Driver	 SPMS-2106 - Control relative traction and braking effort manually	 SPMS-2096 - Driver
		 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4883 - Authorise movement permissions	•  SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	•  SPMS-5060 - Plan Execution System
		 SPMS-2933 - Supervise guideway of one train + _C2P_involved_functions) (Role:	•  SPMS-2822 - Driver	 SPMS-2158 - Supervise guideway of one train	•  SPMS-2096 - Driver
				 SPMS-7850 - Supervise guideway of one train	•  SPMS-5105 - Driver
		 SPMS-3044 - Allocated track path + _C2P_involved_links) (Role:	•  SPMS-2963 - HMI_Signaller_01	 SPMS-6396 - Indicated track section state	•  SPMS-6305 - HMI_Signaller
				 SPMS-6432 - Authorised movement permission	•  SPMS-6985 - I_Signaller
				 SPMS-7230 - Authorised distance and speed restriction	•  SPMS-2198 - HMI_Signaller
		 SPMS-3052 - Allocated track path + _C2P_involved_links) (Role:	•  SPMS-2958 - I_TrafficManagementSystem_01	 SPMS-2249 - Authorised distance and speed restriction	•  SPMS-2200 - I_TrafficManagementSystem
				 SPMS-6416 - Reported operating state	
				 SPMS-6431 - to be deleted	•  SPMS-6308 - SCI_CMD
		 SPMS-3065 - Allocated track path + _C2P_involved_links) (Role:	•  SPMS-2952 - I_CCS_1	 SPMS-6393 - Authorised movement permission	•  SPMS-6306 - I_SUBSET_026
		 SPMS-3079 - Required operational traffic plan + _C2P_involved_links) (Role:	•  SPMS-2958 - I_TrafficManagementSystem_01	 SPMS-2351 - Required operational traffic plan	•  SPMS-2200 - I_TrafficManagementSystem
				 SPMS-6347 - Calculated operational traffic plan	•  SPMS-6302 - SCI_OP_01































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-3123 - Requested track path + (Role: _C2P_involved_links)	•  SPMS-2963 - HMI_Signaller_01	 SPMS-2347 - Requested track path	•  SPMS-2198 - HMI_Signaller
		 SPMS-6413 - Register input			
		 SPMS-6417 - Requested input for movement permission		•  SPMS-6305 - HMI_Signaller	
		 SPMS-3190 - Calculated supervision limits + (Role: _C2P_involved_links)	•  SPMS-2961 - DMI_Driver_Machine_Interface	 SPMS-2325 - Authorised distance and speed restriction	•  SPMS-2204 - DMI_Driver_Machine_Interface
		 SPMS-7858 - Calculated supervision limits		•  SPMS-6296 - HMI_Driver_Machine_Interface	
		 SPMS-3191 - Calculated supervision limits + (Role: _C2P_involved_links)	•  SPMS-2961 - DMI_Driver_Machine_Interface	 SPMS-2326 - Authorised distance and speed restriction	•  SPMS-2204 - DMI_Driver_Machine_Interface
		 SPMS-6354 - Calculated supervision limits			
		 SPMS-6971 - Determine proximity of station platform + (Role: _C2P_involved_functions)	•  SPMS-2807 - Train CS System	 SPMS-2107 - Control state of train doors	•  SPMS-2098 - CCS System
				 SPMS-7844 - Determine proximity of station platform	•  SPMS-5063 - European Train Control System On-board
		 SPMS-6982 - Allocated track path + (Role: _C2P_involved_links)	•  SPMS-2952 - I_CCS_1		
	 SPMS-5368 - Grant movement permission (Operational plan)	 SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	•  SPMS-2822 - Driver	 SPMS-2106 - Control relative traction and braking effort manually	•  SPMS-2096 - Driver
				 SPMS-5502 - Control relative traction and braking effort manually	•  SPMS-5105 - Driver

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
		 SPMS-6971 - Determine proximity of station platform + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2107 - Control state of train doors	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-7844 - Determine proximity of station platform	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	 SPMS-5645 - Grant movement permission (Operational plan - Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
	 SPMS-5810 - Grant movement permission (Signaller request)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
	 SPMS-5811 - Grant movement permission (Signaller request - Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)</div>	<div><div>CS</div>SPMS-2807 - Train CS System</div>	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	<div><div>CS</div>SPMS-2098 - CCS System</div>
		<div><div>SF</div>SPMS-4873 - Calculate safe speed profiles</div>		<div><div>CS</div>SPMS-5063 - European Train Control System On-board</div>	
		<div><div>SF</div>SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)</div>	<div><div>CS</div>SPMS-2823 - Traffic CS System</div>	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	<div><div>CS</div>SPMS-2098 - CCS System</div>
		<div><div>SF</div>SPMS-4878 - Control execution of movement permission request</div>		<div><div>CS</div>SPMS-5060 - Plan Execution System</div>	
		<div><div>SF</div>SPMS-4883 - Authorise movement permissions</div>		<div><div>CS</div>SPMS-5062 - European Trackside Protection System</div>	
		<div><div>SF</div>SPMS-5355 - Report operating state</div>		<div><div>CS</div>SPMS-5060 - Plan Execution System</div>	
<div><div>C</div>SPMS-3306 - tcs_Manual operation of trackside assets</div>					
<div><div>C</div>SPMS-3307 - tcs_Manage construction work- train or working machine entering or exiting a blocked working area</div>	<div><div>H</div>SPMS-4358 - [ES] tcs_Manage construction work- train or working machine entering a blocked working area</div>	<div><div>SF</div>SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)</div>	<div><div>Person</div>SPMS-2827 - Signaller</div>	<div><div>SF</div>SPMS-2167 - Supervise state of railway operation</div>	<div><div>Person</div>SPMS-2090 - Signaller</div>
		<div><div>SF</div>SPMS-4908 - Supervise state of the railway</div>		<div><div>Person</div>SPMS-5110 - Signaller</div>	
		<div><div>SF</div>SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)</div>	<div><div>CS</div>SPMS-2807 - Train CS System</div>	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	<div><div>CS</div>SPMS-2098 - CCS System</div>
				<div><div>SF</div>SPMS-4873 - Calculate safe speed profiles</div>	<div><div>CS</div>SPMS-5063 - European Train Control System On-board</div>
	<div><div>H</div>SPMS-4362 - [ES] tcs_Manage construction work- train or working machine entering or exiting a blocked working area</div>	<div><div>SF</div>SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)</div>	<div><div>Person</div>SPMS-2827 - Signaller</div>	<div><div>SF</div>SPMS-2167 - Supervise state of railway operation</div>	<div><div>Person</div>SPMS-2090 - Signaller</div>





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4874 - Determine state and position of one train	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	<ul style="list-style-type: none"> <li>•  SPMS-5072 - Advance Safe Train Positioning</li> </ul>
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4871 - Aggregate movable object information	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	 SPMS-4380 - [ES] tcs_Manage construction work- train or working machine exiting a blocked working area	 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
 SPMS-3308 - Paused Authorise splitting trains	 SPMS-4379 - Authorise splitting trains (manual coupling)				
	 SPMS-4477 - Authorise splitting trains (manual coupling)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5355 - Report operating state	•  SPMS-5060 - Plan Execution System
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	•  SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
				 SPMS-4874 - Determine state and position of one train	•  SPMS-5063 - European Train Control System On-board
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	•  SPMS-5063 - European Train Control System On-board
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	•  SPMS-5063 - European Train Control System On-board
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	•  SPMS-5072 - Advance Safe Train Positioning
		 SPMS-2897 - Supervise standstill of one train + (Role: _C2P_involved_functions)	•  SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	•  SPMS-2098 - CCS System
				 SPMS-7852 - Supervise standstill of one train	•  SPMS-5063 - European Train Control System On-board
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	•  SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	•  SPMS-5060 - Plan Execution System































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2991 - <a href="#">Allocated track path</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2952 - <a href="#">I_CCS_1</a></li> </ul>		
		 SPMS-3021 - <a href="#">Aggregated track occupancy and train status information</a> + (Role: _C2P_involved_links)		 SPMS-2303 - <a href="#">Estimated motion state</a>	
		 SPMS-3065 - <a href="#">Allocated track path</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2952 - <a href="#">I_CCS_1</a></li> </ul>	 SPMS-6393 - <a href="#">Authorised movement permission</a>	<ul style="list-style-type: none"> <li> SPMS-6306 - <a href="#">I_SUBSET_026</a></li> </ul>
		 SPMS-3212 - <a href="#">Determined train position and state</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2952 - <a href="#">I_CCS_1</a></li> </ul>		
 SPMS-3309 - <a href="#">Localise train on railway infrastructure</a>	 SPMS-4364 - <a href="#">Localise train on railway infrastructure</a>	 SPMS-2833 - <a href="#">Has wheel position and direction in relation to track coordinates</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2829 - <a href="#">Wheel</a></li> </ul>	 SPMS-2141 - <a href="#">Has wheel position and direction in relation to track coordinates</a>	<ul style="list-style-type: none"> <li> SPMS-2101 - <a href="#">Wheel</a></li> </ul>
		 SPMS-2843 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - <a href="#">Traffic Management System</a></li> </ul>	 SPMS-4892 - <a href="#">Has wheel position and direction in relation to track coordinates</a>	<ul style="list-style-type: none"> <li> SPMS-5112 - <a href="#">Wheel</a></li> </ul>
				 SPMS-2148 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"> <li> SPMS-2097 - <a href="#">Traffic Management System</a></li> </ul>
		 SPMS-2878 - <a href="#">Determine position and state of one train</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - <a href="#">Train CS System</a></li> </ul>	 SPMS-4875 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"> <li> SPMS-5111 - <a href="#">Traffic Management System</a></li> </ul>
				 SPMS-2192 - <a href="#">Sense+Observe motion of one train</a>	<ul style="list-style-type: none"> <li> SPMS-2098 - <a href="#">CCS System</a></li> </ul>
				 SPMS-4874 - <a href="#">Determine state and position of one train</a>	<ul style="list-style-type: none"> <li> SPMS-5063 - <a href="#">European Train Control System On-board</a></li> </ul>
				 SPMS-6665 - <a href="#">Determine 1D train front</a>	<ul style="list-style-type: none"> <li> SPMS-5063 - <a href="#">European Train Control System On-board</a></li> </ul>






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				end position in relation to reference location	
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	•  SPMS-5063 - European Train Control System On-board
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	•  SPMS-5072 - Advance Safe Train Positioning
		 SPMS-2880 - Measure+Estimate 1D acceleration of one train + _C2P_involved_functions) (Role:	•  SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
		 SPMS-2892 - Measure+Estimate 1D speed of one train front end + _C2P_involved_functions) (Role:	•  SPMS-2807 - Train CS System	 SPMS-6667 - Measure+Estimate 1D acceleration of one train	•  SPMS-5063 - European Train Control System On-board
				 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
		 SPMS-2919 - Sense+Observe track vacancy proving section state + _C2P_involved_functions) (Role:	•  SPMS-2818 - Trackside Assets CS System	 SPMS-6666 - Measure+Estimate 1D speed of one train front end	•  SPMS-5063 - European Train Control System On-board
				 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
		 SPMS-2937 - Has acceleration vector in relation to rolling stock coordinates + _C2P_involved_functions) (Role:	•  SPMS-2809 - Rolling Stock Reference Point	 SPMS-4901 - Sense+Observe track vacancy proving section state	•  SPMS-5070 - Subsystem - Train Detection System
				 SPMS-2127 - Has acceleration vector in relation to rolling stock coordinates	•  SPMS-2091 - Rolling Stock Reference Point
				 SPMS-6152 - Has acceleration vector in	•  SPMS-5109 - Rolling Stock Reference Point






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				relation to rolling stock coordinates	
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2945 - Has position in relation to geographical coordinates + (Role: _C2P_involved_functions)	 SPMS-2809 - Rolling Stock Reference Point	 SPMS-2135 - Has position in relation to geographical coordinates	 SPMS-2091 - Rolling Stock Reference Point
				 SPMS-6150 - Has position in relation to geographical coordinates	 SPMS-5109 - Rolling Stock Reference Point
		 SPMS-2949 - Has position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	 SPMS-2809 - Rolling Stock Reference Point	 SPMS-2138 - Has position and direction in relation to track coordinates	 SPMS-2091 - Rolling Stock Reference Point
				 SPMS-6154 - Has position and direction in relation to track coordinates	 SPMS-5109 - Rolling Stock Reference Point
		 SPMS-2951 - Has velocity in relation to track coordinates + (Role: _C2P_involved_functions)	 SPMS-2809 - Rolling Stock Reference Point	 SPMS-2140 - Has velocity in relation to track coordinates	 SPMS-2091 - Rolling Stock Reference Point
				 SPMS-6155 - Has velocity in relation to track coordinates	 SPMS-5109 - Rolling Stock Reference Point
	 SPMS-4465 - Localise train on railway infrastructure (Detect track vacancy proving section occupation)	 SPMS-2833 - Has wheel position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	 SPMS-2829 - Wheel	 SPMS-2141 - Has wheel position and direction in relation to track coordinates	 SPMS-2101 - Wheel

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4892 - Has wheel position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li>•  SPMS-5112 - Wheel</li> </ul>
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2919 - Sense+Observe track vacancy proving section state + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2818 - Trackside Assets CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4901 - Sense+Observe track vacancy proving section state	<ul style="list-style-type: none"> <li>•  SPMS-5070 - Subsystem - Train Detection System</li> </ul>
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4871 - Aggregate movable object information	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
		 SPMS-3015 - Actual wheel passing + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2968 - I_Wheel</li> </ul>	 SPMS-2244 - Actual wheel passing	<ul style="list-style-type: none"> <li>•  SPMS-2201 - I_Wheel</li> </ul>
				 SPMS-6325 - Actual wheel passing	<ul style="list-style-type: none"> <li>•  SPMS-6303 - I_Wheel</li> </ul>
		 SPMS-4648 - Observed track vacancy proving section state + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2953 - I_CCS_2</li> </ul>	 SPMS-6398 - Observed track vacancy proving section state	<ul style="list-style-type: none"> <li>•  SPMS-6311 - SCI_TDS</li> </ul>
		 SPMS-4666 - Aggregated track occupancy and train status information	<ul style="list-style-type: none"> <li>•  SPMS-2963 - HMI_Signaller_01</li> </ul>	 SPMS-2330 - Estimated motion state	<ul style="list-style-type: none"> <li>•  SPMS-2198 - HMI_Signaller</li> </ul>





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_links) (Role:			
	 SPMS-4467 - Localise train on railway infrastructure	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	•  SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	•  SPMS-5111 - Traffic Management System
	 SPMS-4474 - Localise train on railway infrastructure (Determine localisation information for one train)	 SPMS-2836 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role:	•  SPMS-2822 - Driver	 SPMS-2106 - Control relative traction and braking effort manually	•  SPMS-2096 - Driver
				 SPMS-5502 - Control relative traction and braking effort manually	•  SPMS-5105 - Driver
		 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	•  SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	•  SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	•  SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	•  SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	•  SPMS-5110 - Signaller
	 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)		•  SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
				 SPMS-4874 - Determine state and position of one train	•  SPMS-5063 - European Train Control System On-board
 SPMS-6665 - Determine 1D train front				•  SPMS-5063 - European Train Control System On-board	

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				end position in relation to reference location	
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	 SPMS-5063 - European Train Control System On-board
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	 SPMS-5072 - Advance Safe Train Positioning
		 SPMS-2892 - Measure+Estimate 1D speed of one train front end + _C2P_involved_functions) (Role:	 SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
		 SPMS-2933 - Supervise guideway of one train + _C2P_involved_functions) (Role:	 SPMS-2822 - Driver	 SPMS-2158 - Supervise guideway of one train	 SPMS-2096 - Driver
				 SPMS-7850 - Supervise guideway of one train	 SPMS-5105 - Driver
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2945 - Has position in relation to geographical coordinates + _C2P_involved_functions) (Role:	 SPMS-2809 - Rolling Stock Reference Point	 SPMS-2135 - Has position in relation to geographical coordinates	 SPMS-2091 - Rolling Stock Reference Point

























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-6150 - Has position in relation to geographical coordinates	<ul style="list-style-type: none"> <li>  SPMS-5109 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-2949 - Has position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2809 - Rolling Stock Reference Point           </li> </ul>	 SPMS-2138 - Has position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-2091 - Rolling Stock Reference Point           </li> </ul>
				 SPMS-6154 - Has position and direction in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-5109 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-2951 - Has velocity in relation to track coordinates + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2809 - Rolling Stock Reference Point           </li> </ul>	 SPMS-2140 - Has velocity in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-2091 - Rolling Stock Reference Point           </li> </ul>
				 SPMS-6155 - Has velocity in relation to track coordinates	<ul style="list-style-type: none"> <li>  SPMS-5109 - Rolling Stock Reference Point           </li> </ul>
		 SPMS-3004 - Actual present geographical coordinate + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2970 - I_RollingStockReferencePoint           </li> </ul>	 SPMS-2238 - Actual present geographical coordinate	<ul style="list-style-type: none"> <li>  SPMS-2196 - I_RollingStockReferencePoint           </li> </ul>
				 SPMS-6673 - Actual present geographical coordinate	
		 SPMS-3007 - Actual present position and direction in track coordinates + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2970 - I_RollingStockReferencePoint           </li> </ul>	 SPMS-2239 - Actual present position and direction	<ul style="list-style-type: none"> <li>  SPMS-2196 - I_RollingStockReferencePoint           </li> </ul>
				 SPMS-7946 - Actual present position and direction in track coordinates	
		 SPMS-3013 - Actual velocity + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2970 - I_RollingStockReferencePoint           </li> </ul>	 SPMS-2243 - Actual velocity	<ul style="list-style-type: none"> <li>  SPMS-2196 - I_RollingStockReferencePoint           </li> </ul>
				 SPMS-6677 - Actual velocity	




















System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-3050 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>	 SPMS-2300 - Estimated motion state	<ul style="list-style-type: none"> <li> SPMS-2200 - I_TrafficManagementSystem</li> </ul>
		 SPMS-3171 - Estimated speed + (Role: _C2P_involved_links)			
		 SPMS-3212 - Determined train position and state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2952 - I_CCS_1</li> </ul>		
		 SPMS-4510 - Estimated speed + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>	 SPMS-2336 - Estimated motion state	<ul style="list-style-type: none"> <li> SPMS-2204 - DMI_Driver_Machine_Interface</li> </ul>
		 SPMS-4666 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>	 SPMS-2330 - Estimated motion state	<ul style="list-style-type: none"> <li> SPMS-2198 - HMI_Signaller</li> </ul>
		 SPMS-5332 - Generate train-specific timetable information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2107 - Control state of train doors	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-2160 - Calculate information to support driving	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-2180 - Control automatic driving speed of one train	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4879 - Generate journey profile for one train unit	<ul style="list-style-type: none"> <li> SPMS-5058 - Automatic Train Operation Trackside</li> </ul>
				 SPMS-4915 - Generate segment profile for one train	<ul style="list-style-type: none"> <li> SPMS-5058 - Automatic Train Operation Trackside</li> </ul>
		 SPMS-5338 - Estimated speed + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>		





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5515 - <a href="#">Determined train position and state</a> + (Role: <a href="#">_C2P_involved_links</a> )	<ul style="list-style-type: none"><li> SPMS-2952 - <a href="#">I_CCS_1</a></li></ul>		
		 SPMS-5864 - <a href="#">Localise train on railway infrastructure (Traffic CS view)</a>	<ul style="list-style-type: none"><li> SPMS-2813 - <a href="#">Traffic Management System</a></li></ul>	 SPMS-2148 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"><li> SPMS-2097 - <a href="#">Traffic Management System</a></li></ul>
				 SPMS-4875 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"><li> SPMS-5111 - <a href="#">Traffic Management System</a></li></ul>
		 SPMS-2878 - <a href="#">Determine position and state of one train</a> + (Role: <a href="#">_C2P_involved_functions</a> )	<ul style="list-style-type: none"><li> SPMS-2807 - <a href="#">Train CS System</a></li></ul>	 SPMS-2192 - <a href="#">Sense+Observe motion of one train</a>	<ul style="list-style-type: none"><li> SPMS-2098 - <a href="#">CCS System</a></li></ul>
				 SPMS-4874 - <a href="#">Determine state and position of one train</a>	<ul style="list-style-type: none"><li> SPMS-5063 - <a href="#">European Train Control System On-board</a></li></ul>
				 SPMS-6665 - <a href="#">Determine 1D train front end position in relation to reference location</a>	<ul style="list-style-type: none"><li> SPMS-5063 - <a href="#">European Train Control System On-board</a></li></ul>
				 SPMS-6668 - <a href="#">Measure+Estimate 1D distance since last reset of odometry</a>	<ul style="list-style-type: none"><li> SPMS-5063 - <a href="#">European Train Control System On-board</a></li></ul>
				 SPMS-6670 - <a href="#">Measure+Estimate 3D kinematic information and uncertainty of one train</a>	<ul style="list-style-type: none"><li> SPMS-5072 - <a href="#">Advance Safe Train Positioning</a></li></ul>
		 SPMS-2919 - <a href="#">Sense+Observe track vacancy proving section state</a> + (Role: <a href="#">_C2P_involved_functions</a> )	<ul style="list-style-type: none"><li> SPMS-2818 - <a href="#">Trackside Assets CS System</a></li></ul>	 SPMS-2192 - <a href="#">Sense+Observe motion of one train</a>	<ul style="list-style-type: none"><li> SPMS-2098 - <a href="#">CCS System</a></li></ul>
				 SPMS-4901 - <a href="#">Sense+Observe track vacancy proving section state</a>	<ul style="list-style-type: none"><li> SPMS-5070 - <a href="#">Subsystem - Train Detection System</a></li></ul>
			<ul style="list-style-type: none"><li> SPMS-2823 - <a href="#">Traffic CS System</a></li></ul>		<ul style="list-style-type: none"><li> SPMS-2098 - <a href="#">CCS System</a></li></ul>

























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div><div><div><div><div></div><div>SF</div></div></div><div>SPMS-2944 - Aggregate movable objects information</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>&lt;</div></div></div>			

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				level crossing protection facility state	
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	
	 SPMS-4481 - Deactivate level crossing	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2817 - Level Crossing Protection Facility	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2092 - Level Crossing Protection Facility
				 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-5106 - Level Crossing Protection Facility
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility	 SPMS-2153 - Paused Sense+Observe specific	 SPMS-2092 - Level Crossing Protection Facility

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ (Role: _C2P_involved_functions)		level crossing protection facility state	•  SPMS-5106 - Level Crossing Protection Facility
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	
		 SPMS-3010 - Paused Required protection facility state + (Role: _C2P_involved_links)	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)	 SPMS-2364 - Paused Required protection facility state	•  SPMS-6297 - I_LevelCrossingProtectionFacility
				 SPMS-6428 - Paused Required protection facility state	
		 SPMS-3159 - Paused Observed level crossing protection facility state + (Role: _C2P_involved_links)	•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)	 SPMS-2298 - Paused Observed level crossing protection facility state	•  SPMS-6297 - I_LevelCrossingProtectionFacility
				 SPMS-6383 - Paused Observed level crossing protection facility state	
		 SPMS-3221 - Paused Observed protection state + (Role: _C2P_involved_links)			
		 SPMS-3224 - Paused Required level crossing protection state + (Role: _C2P_involved_links)			
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5646 - Deactivate level crossing (Train passed level crossing - Traffic CS view)	SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		SPMS-2187 - Paused Control level crossing protection state	
				SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	• SPMS-5066 - Subsystem - Level Crossing
		SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		SPMS-2191 - Paused Observe level crossing protection status	
				SPMS-4899 - Paused Observe level crossing protection facility state	• SPMS-5066 - Subsystem - Level Crossing
	SPMS-6052 - Deactivate level crossing (Signaller request)	SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		SPMS-2191 - Paused Observe level crossing protection status	
				SPMS-4887 - Paused Observe level crossing status	
		SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		SPMS-4904 - Paused Authorise target state of level crossing	
		SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	• SPMS-2817 - Level Crossing Protection Facility	SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state	• SPMS-2092 - Level Crossing Protection Facility
				SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state	• SPMS-5106 - Level Crossing Protection Facility
		SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		SPMS-2187 - Paused Control level crossing protection state	






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2817 - Level Crossing Protection Facility	 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2092 - Level Crossing Protection Facility
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-5106 - Level Crossing Protection Facility
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
	 SPMS-6292 - Deactivate level crossing (Signaller request, Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required	 SPMS-5066 - Subsystem - Level Crossing




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				protection state of one level crossing protection facility	
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	
 SPMS-3311 - tcs_Manage construction work - Warn field forces					
 SPMS-3312 - Set point position	 SPMS-4382 - Set point position (Left to right, Operational plan)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2851 - Determine required position of one point machine + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4885 - Determine required position of one point machine	 SPMS-5068 - Subsystem - Point




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div><div><div><div><div></div><div>SF</div></div></div><div>SPMS-2886 - Observe point status</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>&lt;/</div></div></div></div>			








































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)		 SPMS-2148 - Calculate operational traffic plan	
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2851 - Determine required position of one point machine + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2818 - Trackside Assets CS System</li> </ul>	 SPMS-2190 - Control position of one point	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4885 - Determine required position of one point machine	<ul style="list-style-type: none"> <li>•  SPMS-5068 - Subsystem - Point</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2886 - Observe point status + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2108 - Sense+Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4888 - Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
		 SPMS-2914 - Sense+Observe position of one point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2818 - Trackside Assets CS System</li> </ul>	 SPMS-2108 - Sense+Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4900 - Sense+Observe point position	<ul style="list-style-type: none"> <li>•  SPMS-5068 - Subsystem - Point</li> </ul>
		 SPMS-2932 - Exert force on point rails + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2812 - Point Machine</li> </ul>	 SPMS-2125 - Exert force on point rails	<ul style="list-style-type: none"> <li>•  SPMS-2100 - Point Machine</li> </ul>

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4889 - Exert force on point rails	<ul style="list-style-type: none"> <li>  SPMS-5107 - Point Machine           </li> </ul>
		 SPMS-2942 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2812 - Point Machine           </li> </ul>	 SPMS-2132 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li>  SPMS-2100 - Point Machine           </li> </ul>
				 SPMS-4891 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li>  SPMS-5107 - Point Machine           </li> </ul>
		 SPMS-3008 - Required point machine position + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2967 - I_PointMachine_P3           </li> </ul>	 SPMS-2361 - Required point machine movement	<ul style="list-style-type: none"> <li>  SPMS-2202 - I_PointMachine_P3           </li> </ul>
				 SPMS-6427 - Required point machine position	<ul style="list-style-type: none"> <li>  SPMS-6298 - I_PointMachine_P3           </li> </ul>
		 SPMS-3189 - Observed point status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2963 - HMI_Signaller_01           </li> </ul>	 SPMS-2312 - Observed point status	<ul style="list-style-type: none"> <li>  SPMS-2198 - HMI_Signaller           </li> </ul>
		 SPMS-3209 - Observed point position + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2953 - I_CCS_2           </li> </ul>		
		 SPMS-3227 - Required point position + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2953 - I_CCS_2           </li> </ul>	 SPMS-6357 - Commanded point position state	<ul style="list-style-type: none"> <li>  SPMS-6310 - SCI_P           </li> </ul>
		 SPMS-3228 - Observed point position + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2953 - I_CCS_2           </li> </ul>	 SPMS-2311 - Observed point status	
		 SPMS-4546 - Required operational traffic plan + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>  SPMS-2958 - I_TrafficManagementSystem_01           </li> </ul>	 SPMS-2350 - Required operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2200 - I_TrafficManagementSystem           </li> </ul>
		 SPMS-5265 - Control target state of one point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2823 - Traffic CS System           </li> </ul>	 SPMS-2190 - Control position of one point	<ul style="list-style-type: none"> <li>  SPMS-2098 - CCS System           </li> </ul>
				 SPMS-4877 - Control execution of switchable trackside asset request	<ul style="list-style-type: none"> <li>  SPMS-5060 - Plan Execution System           </li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4903 - Authorise target position of point	 SPMS-5062 - European Trackside Protection System
		 SPMS-5273 - Exerted force + _C2P_involved_links (Role:		 SPMS-4799 - Exerted force	
		 SPMS-6391 - Exerted force			
		 SPMS-5275 - Requested point position + _C2P_involved_links (Role:	 SPMS-2963 - HMI_Signaller_01	 SPMS-4628 - Requested point position	 SPMS-2198 - HMI_Signaller
		 SPMS-5339 - Observed point status + _C2P_involved_links (Role:	 SPMS-2958 - I_TrafficManagementSystem_01	 SPMS-5329 - Observed point status	 SPMS-2200 - I_TrafficManagementSystem
		 SPMS-5815 - Actual physical point machine position + (Role: _C2P_involved_links)	 SPMS-2967 - I_PointMachine_P3	 SPMS-2237 - Actual physical point machine position	 SPMS-2202 - I_PointMachine_P3
		 SPMS-5816 - Observed point position + _C2P_involved_links (Role:			
	 SPMS-4692 - Set point position (Left to right, Signaller request)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions (Role:	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2851 - Determine required position of one point machine + _C2P_involved_functions (Role:	 SPMS-2818 - Trackside Assets CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4885 - Determine required position of one point machine	 SPMS-5068 - Subsystem - Point
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions (Role:	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2886 - Observe point status + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2108 - Sense+Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4888 - Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
		 SPMS-2914 - Sense+Observe position of one point + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2818 - Trackside Assets CS System</li> </ul>	 SPMS-2108 - Sense+Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4900 - Sense+Observe point position	<ul style="list-style-type: none"> <li>•  SPMS-5068 - Subsystem - Point</li> </ul>
		 SPMS-2932 - Exert force on point rails + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2812 - Point Machine</li> </ul>	 SPMS-2125 - Exert force on point rails	<ul style="list-style-type: none"> <li>•  SPMS-2100 - Point Machine</li> </ul>
				 SPMS-4889 - Exert force on point rails	<ul style="list-style-type: none"> <li>•  SPMS-5107 - Point Machine</li> </ul>
		 SPMS-2942 - Has physical behaviour moves+lies+is locked + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2812 - Point Machine</li> </ul>	 SPMS-2132 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li>•  SPMS-2100 - Point Machine</li> </ul>
				 SPMS-4891 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li>•  SPMS-5107 - Point Machine</li> </ul>
	 SPMS-4715 - Set point position (Left to right, Operational plan - Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2851 - Determine required position of one point machine + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4885 - Determine required position of one point machine	 SPMS-5068 - Subsystem - Point
		 SPMS-2886 - Observe point status + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4888 - Observe point status	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2914 - Sense+Observe position of one point + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4900 - Sense+Observe point position	 SPMS-5068 - Subsystem - Point
		 SPMS-5265 - Control target state of one point + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4877 - Control execution of switchable trackside asset request	 SPMS-5060 - Plan Execution System
				 SPMS-4903 - Authorise target position of point	 SPMS-5062 - European Trackside Protection System
	 SPMS-4788 - Set point position (Left to right, Signaller request - Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2851 - Determine required position of one point machine + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4885 - Determine required position of one point machine	 SPMS-5068 - Subsystem - Point
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller
		 SPMS-2886 - Observe point status + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4888 - Observe point status	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2914 - Sense+Observe position of one point + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4900 - Sense+Observe point position	 SPMS-5068 - Subsystem - Point
		 SPMS-5265 - Control target state of one point + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4877 - Control execution of switchable trackside asset request	 SPMS-5060 - Plan Execution System
				 SPMS-4903 - Authorise target position of point	 SPMS-5062 - European Trackside Protection System































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-3313 - Execute end of mission	 SPMS-5703 - <i>Execute</i> end of mission	 SPMS-2837 - <i>Implement specific traction and braking effort</i>  + (Role: _C2P_involved_functions)	•  SPMS-2820 - <i>Rolling Stock Operation System</i>	 SPMS-2146 - <i>Implement specific traction and braking effort</i>	•  SPMS-2094 - <i>Rolling Stock Operation System</i>
				 SPMS-6100 - <i>Implement specific traction and braking effort</i>	•  SPMS-5108 - <i>Rolling Stock Operation System</i>
		 SPMS-2843 - <i>Calculate operational traffic plan</i> + (Role: _C2P_involved_functions)	•  SPMS-2813 - <i>Traffic Management System</i>	 SPMS-2148 - <i>Calculate operational traffic plan</i>	•  SPMS-2097 - <i>Traffic Management System</i>
				 SPMS-4875 - <i>Calculate operational traffic plan</i>	•  SPMS-5111 - <i>Traffic Management System</i>
		 SPMS-2853 - <i>Supervise state of the railway</i> + (Role: _C2P_involved_functions)	•  SPMS-2827 - <i>Signaller</i>	 SPMS-2167 - <i>Supervise state of railway operation</i>	•  SPMS-2090 - <i>Signaller</i>
				 SPMS-4908 - <i>Supervise state of the railway</i>	•  SPMS-5110 - <i>Signaller</i>
		 SPMS-2878 - <i>Determine position and state of one train</i> + (Role: _C2P_involved_functions)	•  SPMS-2807 - <i>Train CS System</i>	 SPMS-2192 - <i>Sense+Observe motion of one train</i>	•  SPMS-2098 - <i>CCS System</i>
				 SPMS-4874 - <i>Determine state and position of one train</i>	•  SPMS-5063 - <i>European Train Control System On-board</i>
				 SPMS-6665 - <i>Determine 1D train front end position in relation to reference location</i>	•  SPMS-5063 - <i>European Train Control System On-board</i>
				 SPMS-6668 - <i>Measure+Estimate 1D distance since last reset of odometry</i>	•  SPMS-5063 - <i>European Train Control System On-board</i>
				 SPMS-6670 - <i>Measure+Estimate 3D kinematic information and uncertainty of one train</i>	•  SPMS-5072 - <i>Advance Safe Train Positioning</i>








































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-2897 - Supervise standstill of one train + (Role: _C2P_involved_functions)</div>	• <div><div></div></div> SPMS-2807 - Train CS System	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	• <div><div></div></div> SPMS-2098 - CCS System
		<div><div>SF</div>SPMS-7852 - Supervise standstill of one train</div>		• <div><div></div></div> SPMS-5063 - European Train Control System On-board	
		<div><div>SF</div>SPMS-2921 - Supervise compliance of speed profiles of one train + (Role: _C2P_involved_functions)</div>	• <div><div></div></div> SPMS-2807 - Train CS System	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	• <div><div></div></div> SPMS-2098 - CCS System
		<div><div>SF</div>SPMS-7849 - Supervise compliance of speed profiles of one train</div>		• <div><div></div></div> SPMS-5063 - European Train Control System On-board	
		<div><div>SF</div>SPMS-2936 - Control cab mode of one train + (Role: _C2P_involved_functions)</div>	• <div><div></div></div> SPMS-2820 - Rolling Stock Operation System	<div><div>SF</div>SPMS-2163 - Control cab mode of one train</div>	• <div><div></div></div> SPMS-2094 - Rolling Stock Operation System
		<div><div>SF</div>SPMS-7839 - Control cab mode of one train</div>		• <div><div></div></div> SPMS-5108 - Rolling Stock Operation System	
		<div><div>SF</div>SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)</div>	• <div><div></div></div> SPMS-2823 - Traffic CS System	<div><div>SF</div>SPMS-2192 - Sense+Observe motion of one train</div>	• <div><div></div></div> SPMS-2098 - CCS System
		<div><div>SF</div>SPMS-4871 - Aggregate movable object information</div>		• <div><div></div></div> SPMS-5062 - European Trackside Protection System	
		<div><div>SF</div>SPMS-5355 - Report operating state</div>		• <div><div></div></div> SPMS-5060 - Plan Execution System	
		<div><div>SF</div>SPMS-2947 - Toggle train cab + (Role: _C2P_involved_functions)</div>	• <div><div></div></div> SPMS-2822 - Driver	<div><div>SF</div>SPMS-2109 - Toggle train cab</div>	• <div><div></div></div> SPMS-2096 - Driver
		<div><div>SF</div>SPMS-7854 - Toggle train cab</div>		• <div><div></div></div> SPMS-5105 - Driver	
		<div><div>D-L</div>SPMS-2992 - Required cab status + (Role: _C2P_involved_links)</div>		<div><div>D-L</div>SPMS-2235 - Required cab status</div>	
		<div><div>D-L</div>SPMS-7885 - Required cab status</div>			
			• <div><div>D-L</div>SPMS-2971 - I_SUBSET_034_119</div>	<div><div>D-L</div>SPMS-6978 - Reported cab status</div>	• <div><div>D-L</div>SPMS-2197 - I_SUBSET_034_119</div>
































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2995 - Reported cab status + (Role: _C2P_involved_links)		 SPMS-7880 - Reported cab status	
		 SPMS-3022 - Required state of parking brake or emergency brake + (Role: _C2P_involved_links)		 SPMS-6951 - Required state of full service brake or traction cut off or emergency brake  SPMS-7889 - Required state of parking brake or emergency brake	•  SPMS-2197 - I_SUBSET_034_119
		 SPMS-3050 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	•  SPMS-2958 - I_TrafficManagementSystem_01	 SPMS-2300 - Estimated motion state	•  SPMS-2200 - I_TrafficManagementSystem
		 SPMS-3212 - Determined train position and state + (Role: _C2P_involved_links)	•  SPMS-2952 - I_CCS_1		
		 SPMS-4666 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	•  SPMS-2963 - HMI_Signaller_01	 SPMS-2330 - Estimated motion state	•  SPMS-2198 - HMI_Signaller
		 SPMS-6931 - Switch train power + (Role: _C2P_involved_functions)	•  SPMS-2822 - Driver	 SPMS-6819 - Switch train power	•  SPMS-2096 - Driver
				 SPMS-7853 - Switch train power	•  SPMS-5105 - Driver
		 SPMS-6932 - Control power of one train + (Role: _C2P_involved_functions)	•  SPMS-2820 - Rolling Stock Operation System	 SPMS-6817 - Control power of one train	•  SPMS-2094 - Rolling Stock Operation System
				 SPMS-7840 - Control power of one train	•  SPMS-5108 - Rolling Stock Operation System
		 SPMS-6933 - Control voice communication for one train + (Role: _C2P_involved_functions)	•  SPMS-2807 - Train CS System	 SPMS-2110 - Control voice communication	•  SPMS-2098 - CCS System
				 SPMS-7769 - Control voice communication for one train	






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6935 - <a href="#">Control registration of functional number</a> + (Role: _C2P_involved_functions)	•  SPMS-2822 - <a href="#">Driver</a>	 SPMS-6821 - <a href="#">Control registration of functional number</a>	•  SPMS-2096 - <a href="#">Driver</a>
		 SPMS-7841 - <a href="#">Control registration of functional number</a>		•  SPMS-5105 - <a href="#">Driver</a>	
		 SPMS-6939 - <a href="#">Required power status</a> + (Role: _C2P_involved_links)		 SPMS-6876 - <a href="#">Required power status</a>	
		 SPMS-7886 - <a href="#">Required power status</a>			
		 SPMS-6942 - <a href="#">Provided functional number</a> + (Role: _C2P_involved_links)	•  SPMS-2961 - <a href="#">DMI_Driver_Machine_Interface</a>	 SPMS-6878 - <a href="#">Provided functional number</a>	•  SPMS-2204 - <a href="#">DMI_Driver_Machine_Interface</a>
		 SPMS-7879 - <a href="#">Provided functional number</a>			
		 SPMS-6959 - <a href="#">Reported cab status</a> + (Role: _C2P_involved_links)	•  SPMS-2971 - <a href="#">I_SUBSET_034_119</a>	 SPMS-6879 - <a href="#">Reported cab status</a>	•  SPMS-2197 - <a href="#">I_SUBSET_034_119</a>
		 SPMS-7881 - <a href="#">Reported cab status</a>			
		 SPMS-6974 - <a href="#">Main power status</a> + (Role: _C2P_involved_links)	•  SPMS-2971 - <a href="#">I_SUBSET_034_119</a>	 SPMS-6969 - <a href="#">Main power status</a>	•  SPMS-2197 - <a href="#">I_SUBSET_034_119</a>
		 SPMS-7872 - <a href="#">Main power status</a>			
		 SPMS-6975 - <a href="#">Indicated functional number</a> + (Role: _C2P_involved_links)	•  SPMS-2961 - <a href="#">DMI_Driver_Machine_Interface</a>	 SPMS-6967 - <a href="#">Indicated functional number</a>	•  SPMS-2204 - <a href="#">DMI_Driver_Machine_Interface</a>
		 SPMS-7867 - <a href="#">Indicated functional number</a>			
	 SPMS-6983 - <a href="#">Reported cab status</a> + (Role: _C2P_involved_links)	•  SPMS-2971 - <a href="#">I_SUBSET_034_119</a>	 SPMS-7882 - <a href="#">Reported cab status</a>		
 SPMS-6938 - <a href="#">Execute end of mission</a>	 SPMS-2837 - <a href="#">Implement specific traction and braking effort</a> + (Role: _C2P_involved_functions)	•  SPMS-2820 - <a href="#">Rolling Stock Operation System</a>	 SPMS-2146 - <a href="#">Implement specific traction and braking effort</a>	•  SPMS-2094 - <a href="#">Rolling Stock Operation System</a>	




























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-6100 - Implement specific traction and braking effort	<ul style="list-style-type: none"> <li>•  SPMS-5108 - Rolling Stock Operation System</li> </ul>
		 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4874 - Determine state and position of one train	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	<ul style="list-style-type: none"> <li>•  SPMS-5072 - Advance Safe Train Positioning</li> </ul>
		 SPMS-2897 - Supervise standstill of one train + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7852 - Supervise standstill of one train	 SPMS-5063 - European Train Control System On-board
		 SPMS-2936 - Control cab mode of one train + _C2P_involved_functions) (Role:	 SPMS-2820 - Rolling Stock Operation System	 SPMS-2163 - Control cab mode of one train	 SPMS-2094 - Rolling Stock Operation System
				 SPMS-7839 - Control cab mode of one train	 SPMS-5108 - Rolling Stock Operation System
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2947 - Toggle train cab + _C2P_involved_functions) (Role:	 SPMS-2822 - Driver	 SPMS-2109 - Toggle train cab	 SPMS-2096 - Driver
				 SPMS-7854 - Toggle train cab	 SPMS-5105 - Driver
		 SPMS-6931 - Switch train power + _C2P_involved_functions) (Role:	 SPMS-2822 - Driver	 SPMS-6819 - Switch train power	 SPMS-2096 - Driver
				 SPMS-7853 - Switch train power	 SPMS-5105 - Driver
		 SPMS-6932 - Control power of one train + _C2P_involved_functions) (Role:	 SPMS-2820 - Rolling Stock Operation System	 SPMS-6817 - Control power of one train	 SPMS-2094 - Rolling Stock Operation System
				 SPMS-7840 - Control power of one train	 SPMS-5108 - Rolling Stock Operation System
		 SPMS-6933 - Control voice communication for one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2110 - Control voice communication	 SPMS-2098 - CCS System
				 SPMS-7769 - Control voice communication for one train	

























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6935 - Control registration of functional number + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2822 - Driver</li> </ul>	 SPMS-6821 - Control registration of functional number	<ul style="list-style-type: none"> <li>•  SPMS-2096 - Driver</li> </ul>
				 SPMS-7841 - Control registration of functional number	<ul style="list-style-type: none"> <li>•  SPMS-5105 - Driver</li> </ul>
	 SPMS-7162 - Execute end of mission (Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4874 - Determine state and position of one train	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	<ul style="list-style-type: none"> <li>•  SPMS-5072 - Advance Safe Train Positioning</li> </ul>

























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
 SPMS-3314 - Perform operational plan movement	 SPMS-4553 - Perform operational plan movement				
	 SPMS-5708 - Perform operational plan movement				
	 SPMS-5995 - Perform operational plan movement (Traffic control and supervision view)				
 SPMS-3315 - Paused Activate level crossing	 SPMS-4353 - Activate level crossing (Activation before granting MA without restrictions)	 SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2822 - Driver	 SPMS-2106 - Control relative traction and braking effort manually	 SPMS-2096 - Driver
		 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2817 - Level Crossing Protection Facility	 SPMS-5502 - Control relative traction and braking effort manually	 SPMS-5105 - Driver
				 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2092 - Level Crossing Protection Facility
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
					 SPMS-5111 - Traffic Management System
		 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)			































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4875 - Calculate operational traffic plan	
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
		 SPMS-2874 - Control track path allocation for movement permissions + _C2P_involved_functions) (Role:	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2909 - Paused Observe level crossing protection status		 SPMS-2191 - Paused Observe level crossing protection status	



























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:	•  SPMS-2817 - Level Crossing Protection Facility	 SPMS-4899 - Paused Observe level crossing protection facility state	•  SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state + _C2P_involved_functions) (Role:		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	•  SPMS-2092 - Level Crossing Protection Facility
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	•  SPMS-5106 - Level Crossing Protection Facility
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	•  SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	•  SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	•  SPMS-5060 - Plan Execution System
	 SPMS-4452 - Activate level crossing	 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + _C2P_involved_functions) (Role:	•  SPMS-2817 - Level Crossing Protection Facility	 SPMS-4904 - Paused Authorise target state of level crossing	
				 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state	•  SPMS-2092 - Level Crossing Protection Facility
		+ _C2P_involved_functions) (Role:		 SPMS-4884 - Paused Control+Actuate specific	•  SPMS-5106 - Level Crossing Protection Facility





























































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				level crossing protection facility state	
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	<ul style="list-style-type: none"> <li>•  SPMS-5066 - Subsystem - Level Crossing</li> </ul>
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	<ul style="list-style-type: none"> <li>•  SPMS-5066 - Subsystem - Level Crossing</li> </ul>
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2817 - Level Crossing Protection Facility</li> </ul>	 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li>•  SPMS-2092 - Level Crossing Protection Facility</li> </ul>
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li>•  SPMS-5106 - Level Crossing Protection Facility</li> </ul>
		 SPMS-3010 - Paused Required protection facility state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)</li> </ul>	 SPMS-2364 - Paused Required protection facility state	
				 SPMS-6428 - Paused Required protection facility state	<ul style="list-style-type: none"> <li>•  SPMS-6297 - I_LevelCrossingProtectionFacility</li> </ul>
		 SPMS-3159 - Paused Observed level crossing protection facility state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)</li> </ul>	 SPMS-2298 - Paused Observed level crossing protection facility state	
				 SPMS-6383 - Paused Observed level crossing protection facility state	<ul style="list-style-type: none"> <li>•  SPMS-6297 - I_LevelCrossingProtectionFacility</li> </ul>


























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-3221 - Paused Observed protection state + (Role: _C2P_involved_links)			
		 SPMS-3224 - Paused Required level crossing protection state + (Role: _C2P_involved_links)			
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	
	 SPMS-5649 - Activate level crossing (Activation before granting MA without restrictions, Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	•  SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	•  SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	•  SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	•  SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	•  SPMS-5110 - Signaller
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one	•  SPMS-5066 - Subsystem - Level Crossing

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				level crossing protection facility	
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	
	 SPMS-6027 - Activate level crossing (Signaller request)	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2092 - Level Crossing Protection Facility</li> </ul>
				 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>
		 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>	 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2092 - Level Crossing Protection Facility</li> </ul>
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	
	 SPMS-6028 - Activate level crossing (Activation after granting MA without restrictions)	 SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>	 SPMS-2106 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>
				 SPMS-5502 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-5105 - Driver</li> </ul>
		 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>	 SPMS-2116 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2092 - Level Crossing Protection Facility</li> </ul>
				 SPMS-4884 - Paused Control+Actuate specific	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>



























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				level crossing protection facility state	
		 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2817 - Level Crossing Protection Facility	 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2092 - Level Crossing Protection Facility
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-5106 - Level Crossing Protection Facility
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	




























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-6278 - Activate level crossing (Signaller request, Traffic CS view)	SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	• SPMS-2813 - Traffic Management System	SPMS-2148 - Calculate operational traffic plan SPMS-4875 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System • SPMS-5111 - Traffic Management System
		SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	• SPMS-2827 - Signaller	SPMS-2167 - Supervise state of railway operation SPMS-4908 - Supervise state of the railway	• SPMS-2090 - Signaller • SPMS-5110 - Signaller
		SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		SPMS-2187 - Paused Control level crossing protection state SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	• SPMS-5066 - Subsystem - Level Crossing
		SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		SPMS-2191 - Paused Observe level crossing protection status SPMS-4899 - Paused Observe level crossing protection facility state	• SPMS-5066 - Subsystem - Level Crossing
		SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		SPMS-2191 - Paused Observe level crossing protection status SPMS-4887 - Paused Observe level crossing status	
		SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		SPMS-4904 - Paused Authorise target state of level crossing	














































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-6279 - Activate level crossing (Activation after granting MA without restrictions, Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller
		 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)		 SPMS-2187 - Paused Control level crossing protection state	
				 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4887 - Paused Observe level crossing status	
		 SPMS-5267 - Paused Control target state level crossing protection + (Role: _C2P_involved_functions)		 SPMS-4904 - Paused Authorise target state of level crossing	
 SPMS-3316 - Perform train movement	 SPMS-4473 - Perform train movement	 SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>	 SPMS-2106 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>
		 SPMS-2837 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2820 - Rolling Stock Operation System</li> </ul>	 SPMS-2146 - Implement specific traction and braking effort	<ul style="list-style-type: none"> <li> SPMS-2094 - Rolling Stock Operation System</li> </ul>
		 SPMS-3012 - Required relative traction and brake effort manually + (Role: _C2P_involved_links)		 SPMS-2366 - Required relative traction and brake effort manually	
		 SPMS-4559 - Implement specific doors state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2820 - Rolling Stock Operation System</li> </ul>	 SPMS-2114 - Implement specific doors state	<ul style="list-style-type: none"> <li> SPMS-2094 - Rolling Stock Operation System</li> </ul>
				 SPMS-6429 - Required relative traction and brake effort manually	
				 SPMS-7845 - Implement specific doors state	<ul style="list-style-type: none"> <li> SPMS-5108 - Rolling Stock Operation System</li> </ul>
		 SPMS-6971 - Determine proximity of station platform + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2107 - Control state of train doors	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>





























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7844 - Determine proximity of station platform	 SPMS-5063 - European Train Control System On-board
		 SPMS-6973 - Determinated distance to the next station platform and properties + (Role: _C2P_involved_links)	 SPMS-2971 - I_SUBSET_034_119	 SPMS-7864 - Determinated distance to the next station platform and properties	
				 SPMS-7976 - Provided station and platform information	 SPMS-2197 - I_SUBSET_034_119
	 SPMS-5643 - Perform train movement	 SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2822 - Driver	 SPMS-2106 - Control relative traction and braking effort manually	 SPMS-2096 - Driver
		 SPMS-2837 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	 SPMS-2820 - Rolling Stock Operation System	 SPMS-2146 - Implement specific traction and braking effort	 SPMS-2094 - Rolling Stock Operation System
		 SPMS-2862 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2160 - Calculate information to support driving	 SPMS-2098 - CCS System
				 SPMS-4895 - Indicate information to support driving	 SPMS-5073 - Multi Display System
				 SPMS-7838 - Calculate information to support driving	 SPMS-5057 - Automatic Train Operation On-board
		 SPMS-2870 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2180 - Control automatic driving speed of one train	 SPMS-2098 - CCS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4872 - Control automatic driving speed of one train	•  SPMS-5057 - Automatic Train Operation On-board
				 SPMS-4917 - Request+Store journey profile	•  SPMS-5057 - Automatic Train Operation On-board
				 SPMS-7846 - Indicate automatic driving state	•  SPMS-5073 - Multi Display System
				 SPMS-7847 - Register automatic driving input from driver	•  SPMS-5073 - Multi Display System
		 SPMS-4560 - Supervise passenger exchange + (Role: _C2P_involved_functions)	•  SPMS-2822 - Driver	 SPMS-2177 - Supervise passenger exchange	•  SPMS-2096 - Driver
				 SPMS-7851 - Supervise passenger exchange	•  SPMS-5105 - Driver
		 SPMS-5332 - Generate train-specific timetable information + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2107 - Control state of train doors	•  SPMS-2098 - CCS System
				 SPMS-2160 - Calculate information to support driving	•  SPMS-2098 - CCS System
				 SPMS-2180 - Control automatic driving speed of one train	•  SPMS-2098 - CCS System
				 SPMS-4879 - Generate journey profile for one train unit	•  SPMS-5058 - Automatic Train Operation Trackside
				 SPMS-4915 - Generate segment profile for one train	•  SPMS-5058 - Automatic Train Operation Trackside
	 SPMS-5644 - Perform train movement (Traffic CS view)				



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-3317 - tcs_Manage failures	 SPMS-4384 - [ES] tcs_Manage failures				
	 SPMS-4451 - tcs_Manage failures				
 SPMS-3318 - Activate usage restriction	 SPMS-4355 - Activate usage restriction (Planned usage restriction)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2929 - Control usage restrictions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2159 - Control usage restriction areas	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-5723 - Control usage restriction area request	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-5724 - Authorise usage restriction areas	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>
	 SPMS-4469 - Activate usage restriction	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2929 - Control usage restrictions + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2159 - Control usage restriction areas	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-5723 - Control usage restriction area request	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-5724 - Authorise usage restriction areas	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
		 SPMS-2988 - Required operational traffic plan + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>	 SPMS-2357 - Required operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2200 - I_TrafficManagementSystem</li> </ul>
		 SPMS-3078 - Provided usage restriction state + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2963 - HMI_Signaller_01</li> </ul>	 SPMS-4824 - Provided usage restriction state	<ul style="list-style-type: none"> <li>•  SPMS-2198 - HMI_Signaller</li> </ul>
		 SPMS-3173 - Usage restriction state + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>	 SPMS-2215 - Usage restriction state	<ul style="list-style-type: none"> <li>•  SPMS-2200 - I_TrafficManagementSystem</li> </ul>
		 SPMS-3174 - Usage restriction state + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2963 - HMI_Signaller_01</li> </ul>	 SPMS-2219 - Usage restriction state	<ul style="list-style-type: none"> <li>•  SPMS-2198 - HMI_Signaller</li> </ul>
	 SPMS-7246 - Activate usage restriction (Unplanned TSR)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-2929 - <a href="#">Control usage restrictions</a><div></div><div>+ (Role: _C2P_involved_functions)</div></div>	<div><div>CS</div>SPMS-2823 - <a href="#">Traffic CS System</a></div>	<div><div>SF</div>SPMS-2159 - <a href="#">Control usage restriction areas</a></div>	<div><div>CS</div>SPMS-2098 - <a href="#">CCS System</a></div>
				<div><div>SF</div>SPMS-5723 - <a href="#">Control usage restriction area request</a></div>	<div><div>CS</div>SPMS-5060 - <a href="#">Plan Execution System</a></div>
				<div><div>SF</div>SPMS-5724 - <a href="#">Authorise usage restriction areas</a></div>	<div><div>CS</div>SPMS-5062 - <a href="#">European Trackside Protection System</a></div>
<div><div>CS</div>SPMS-3320 - <a href="#">tcs_Manage construction work - block and unblock working area</a></div>					
<div><div>CS</div>SPMS-3321 - <a href="#">Paused Authorise joining trains</a></div>	<div><div>HF</div>SPMS-4352 - <a href="#">Authorise joining trains (manual coupling)</a></div>				
	<div><div>SF</div>SPMS-4456 - <a href="#">Authorise joining trains (manual coupling)</a></div>	<div><div>SF</div>SPMS-2843 - <a href="#">Calculate operational traffic plan</a><div></div><div>+ (Role: _C2P_involved_functions)</div></div>	<div><div>PS</div>SPMS-2813 - <a href="#">Traffic Management System</a></div>	<div><div>SF</div>SPMS-2148 - <a href="#">Calculate operational traffic plan</a></div>	<div><div>PS</div>SPMS-2097 - <a href="#">Traffic Management System</a></div>
		<div><div>SF</div>SPMS-2872 - <a href="#">Calculate safe speed profiles of one train</a><div></div><div>+ (Role: _C2P_involved_functions)</div></div>	<div><div>CS</div>SPMS-2807 - <a href="#">Train CS System</a></div>	<div><div>SF</div>SPMS-4875 - <a href="#">Calculate operational traffic plan</a></div>	<div><div>PS</div>SPMS-5111 - <a href="#">Traffic Management System</a></div>
				<div><div>SF</div>SPMS-2137 - <a href="#">Ensure safe movement of trains</a></div>	<div><div>CS</div>SPMS-2098 - <a href="#">CCS System</a></div>
			<div><div>SF</div>SPMS-4873 - <a href="#">Calculate safe speed profiles</a></div>	<div><div>CS</div>SPMS-5063 - <a href="#">European Train Control System On-board</a></div>	
			<div><div>SF</div>SPMS-2137 - <a href="#">Ensure safe movement of trains</a></div>	<div><div>CS</div>SPMS-2098 - <a href="#">CCS System</a></div>	
		<div><div>SF</div>SPMS-4878 - <a href="#">Control execution of movement permission request</a></div>	<div><div>CS</div>SPMS-5060 - <a href="#">Plan Execution System</a></div>		

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4874 - Determine state and position of one train	 SPMS-5063 - European Train Control System On-board
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	 SPMS-5063 - European Train Control System On-board
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	 SPMS-5063 - European Train Control System On-board
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	 SPMS-5072 - Advance Safe Train Positioning
		 SPMS-2897 - Supervise standstill of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-7852 - Supervise standstill of one train	 SPMS-5063 - European Train Control System On-board
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System



















































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2991 - Allocated track path + (Role: _C2P_involved_links)	 SPMS-2952 - I_CCS_1		
		 SPMS-3021 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)		 SPMS-2303 - Estimated motion state	
		 SPMS-3065 - Allocated track path + (Role: _C2P_involved_links)	 SPMS-2952 - I_CCS_1	 SPMS-6393 - Authorised movement permission	 SPMS-6306 - I_SUBSET_026
		 SPMS-3212 - Determined train position and state + (Role: _C2P_involved_links)	 SPMS-2952 - I_CCS_1		
 SPMS-3323 - Execute start of mission	 SPMS-7117 - Execute start of mission	 SPMS-2852 - Control start of mission activities + (Role: _C2P_involved_functions)	 SPMS-2822 - Driver	 SPMS-2126 - Control start of mission activities manually	 SPMS-2096 - Driver
				 SPMS-7842 - Control start of mission activities	 SPMS-5105 - Driver
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4874 - Determine state and position of one train	 SPMS-5063 - European Train Control System On-board
				 SPMS-6665 - Determine 1D train front	 SPMS-5063 - European Train Control System On-board























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				end position in relation to reference location	
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	 SPMS-5063 - European Train Control System On-board
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	 SPMS-5072 - Advance Safe Train Positioning
		 SPMS-2936 - Control cab mode of one train + _C2P_involved_functions) (Role:	 SPMS-2820 - Rolling Stock Operation System	 SPMS-2163 - Control cab mode of one train	 SPMS-2094 - Rolling Stock Operation System
		 SPMS-2947 - Toggle train cab + _C2P_involved_functions) (Role:	 SPMS-2822 - Driver	 SPMS-2109 - Toggle train cab	 SPMS-2096 - Driver
		 SPMS-7115 - Acknowledge train data + _C2P_involved_functions) (Role:	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
	 SPMS-7717 - Execute start of mission_TLA	 SPMS-2109 - Toggle train cab + _C2P_involved_functions) (Role:	 SPMS-2096 - Driver	 SPMS-2947 - Toggle train cab	 SPMS-2822 - Driver
		 SPMS-2110 - Control voice communication + _C2P_involved_functions) (Role:	 SPMS-2098 - CCS System	 SPMS-6933 - Control voice communication for one train	 SPMS-2807 - Train CS System
		 SPMS-2126 - Control start of mission activities manually + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2852 - Control start of mission activities	 SPMS-2822 - Driver
			 SPMS-2098 - CCS System		 SPMS-2807 - Train CS System

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)		 SPMS-2872 - Calculate safe speed profiles of one train	
				 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	•  SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	•  SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	•  SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-2163 - Control cab mode of one train + (Role: _C2P_involved_functions)	•  SPMS-2094 - Rolling Stock Operation System	 SPMS-2936 - Control cab mode of one train	•  SPMS-2820 - Rolling Stock Operation System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	•  SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-2174 - Use system voice communication + (Role: _C2P_involved_functions)	•  SPMS-2096 - Driver	 SPMS-6952 - Use system voice communication	•  SPMS-2822 - Driver
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2878 - Determine position and state of one train	•  SPMS-2807 - Train CS System
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	•  SPMS-2807 - Train CS System
				 SPMS-2892 - Measure+Estimate 1D	•  SPMS-2807 - Train CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				speed of one train front end	
				 SPMS-2919 - Sense+Observe track vacancy proving section state	 SPMS-2818 - Trackside Assets CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-6821 - Control registration of functional number + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-6935 - Control registration of functional number	 SPMS-2822 - Driver
 SPMS-3324 - Paused Handing over a train to a neighbouring Traffic CS	 SPMS-4356 - [ES] tcs_Handing over a train to a neighbouring Traffic CS	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
				 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
				 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4874 - Determine state and position of one train	 SPMS-5063 - European Train Control System On-board
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	 SPMS-5063 - European Train Control System On-board
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	 SPMS-5063 - European Train Control System On-board
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	 SPMS-5072 - Advance Safe Train Positioning
		 SPMS-2935 - Paused Accept train from neighbouring Traffic CS + (Role: _C2P_involved_functions)			
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2946 - Paused Handover train to neighbouring Traffic CS			



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:			
 SPMS-3325 - old Local operation of trackside assets	 SPMS-4375 - [ES] tcs_Local operation of trackside assets				
	 SPMS-4376 - [ES] tcs_Local operation of trackside assets_Termination				
 SPMS-3326 - Prepare train for movement (Duplicate with start of mission )	 SPMS-4383 - tcs_Prepate train for movement (Initial)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2878 - Determine position and state of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4874 - Determine state and position of one train	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6665 - Determine 1D train front end position in relation to reference location	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6668 - Measure+Estimate 1D distance since last reset of odometry	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-6670 - Measure+Estimate 3D kinematic information and uncertainty of one train	<ul style="list-style-type: none"> <li> SPMS-5072 - Advance Safe Train Positioning</li> </ul>
	 SPMS-4463 - tcs_Prepate train for movement				





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-3327 - tcs_Perform stop duty - Arrival passenger train (Duplicate with Open train doors)	 SPMS-4466 - tcs_Perform Stop Duty - Arrival Passenger Trains (excluding PSD)				
 SPMS-3942 - Upgrade or renew infrastructure network capabilities					
 SPMS-3943 - Operate train	 SPMS-7099 - [OES] Manage traffic (including federated approach)				
	 SPMS-7100 - [OES] Manage traffic (deviation included)				
	 SPMS-7135 - [OES] Prepare Train				
 SPMS-3944 - Maintain and monitor infrastructure					
 SPMS-3945 - Maintain and monitor rolling stock					
 SPMS-3946 - Manage electrical energy					
 SPMS-4518 - Deactivate usage restriction	 SPMS-4363 - Deactivate usage restriction (Planned usage restriction)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	•  SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	•  SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	•  SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	•  SPMS-2090 - Signaller

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		SPMS-2929 - <a href="#">Control usage restrictions</a> + (Role: _C2P_involved_functions)	•  SPMS-2823 - <a href="#">Traffic CS System</a>	 SPMS-4908 - <a href="#">Supervise state of the railway</a>	•  SPMS-5110 - <a href="#">Signaller</a>
				 SPMS-2159 - <a href="#">Control usage restriction areas</a>	•  SPMS-2098 - <a href="#">CCS System</a>
				 SPMS-5723 - <a href="#">Control usage restriction area request</a>	•  SPMS-5060 - <a href="#">Plan Execution System</a>
				 SPMS-5724 - <a href="#">Authorise usage restriction areas</a>	•  SPMS-5062 - <a href="#">European Trackside Protection System</a>
	 SPMS-4470 - <a href="#">Deactivate usage restriction</a>	 SPMS-2843 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)	•  SPMS-2813 - <a href="#">Traffic Management System</a>	 SPMS-2148 - <a href="#">Calculate operational traffic plan</a>	•  SPMS-2097 - <a href="#">Traffic Management System</a>
				 SPMS-4875 - <a href="#">Calculate operational traffic plan</a>	•  SPMS-5111 - <a href="#">Traffic Management System</a>
		 SPMS-2853 - <a href="#">Supervise state of the railway</a> + (Role: _C2P_involved_functions)	•  SPMS-2827 - <a href="#">Signaller</a>	 SPMS-2167 - <a href="#">Supervise state of railway operation</a>	•  SPMS-2090 - <a href="#">Signaller</a>
				 SPMS-4908 - <a href="#">Supervise state of the railway</a>	•  SPMS-5110 - <a href="#">Signaller</a>
		 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a> + (Role: _C2P_involved_functions)	•  SPMS-2823 - <a href="#">Traffic CS System</a>	 SPMS-2137 - <a href="#">Ensure safe movement of trains</a>	•  SPMS-2098 - <a href="#">CCS System</a>
				 SPMS-4878 - <a href="#">Control execution of movement permission request</a>	•  SPMS-5060 - <a href="#">Plan Execution System</a>
				 SPMS-4883 - <a href="#">Authorise movement permissions</a>	•  SPMS-5062 - <a href="#">European Trackside Protection System</a>
				 SPMS-5355 - <a href="#">Report operating state</a>	•  SPMS-5060 - <a href="#">Plan Execution System</a>





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-2929 - <a href="#">Control usage restrictions</a> + (Role: _C2P_involved_functions)</div>	• <div><div>CS</div>SPMS-2823 - <a href="#">Traffic CS System</a></div>	<div><div>SF</div>SPMS-2159 - <a href="#">Control usage restriction areas</a></div>	• <div><div>CS</div>SPMS-2098 - <a href="#">CCS System</a></div>
		<div><div>SF</div>SPMS-5723 - <a href="#">Control usage restriction area request</a></div>		• <div><div>CS</div>SPMS-5060 - <a href="#">Plan Execution System</a></div>	
		<div><div>SF</div>SPMS-5724 - <a href="#">Authorise usage restriction areas</a></div>		• <div><div>CS</div>SPMS-5062 - <a href="#">European Trackside Protection System</a></div>	
		<div><div>DF</div>SPMS-2988 - <a href="#">Required operational traffic plan</a> + (Role: _C2P_involved_links)</div>	• <div><div>DF</div>SPMS-2958 - <a href="#">I_TrafficManagementSystem_01</a></div>	<div><div>DF</div>SPMS-2357 - <a href="#">Required operational traffic plan</a></div>	• <div><div>DF</div>SPMS-2200 - <a href="#">I_TrafficManagementSystem</a></div>
		<div><div>DF</div>SPMS-3000 - <a href="#">Usage restriction state</a> + (Role: _C2P_involved_links)</div>		<div><div>DF</div>SPMS-2216 - <a href="#">Usage restriction state</a></div>	
				<div><div>DF</div>SPMS-7827 - <a href="#">Authorised usage restriction</a></div>	
		<div><div>DF</div>SPMS-3078 - <a href="#">Provided usage restriction state</a> + (Role: _C2P_involved_links)</div>	• <div><div>DF</div>SPMS-2963 - <a href="#">HMI_Signaller_01</a></div>	<div><div>DF</div>SPMS-4824 - <a href="#">Provided usage restriction state</a></div>	• <div><div>DF</div>SPMS-2198 - <a href="#">HMI_Signaller</a></div>
		<div><div>DF</div>SPMS-3173 - <a href="#">Usage restriction state</a> + (Role: _C2P_involved_links)</div>	• <div><div>DF</div>SPMS-2958 - <a href="#">I_TrafficManagementSystem_01</a></div>	<div><div>DF</div>SPMS-2215 - <a href="#">Usage restriction state</a></div>	• <div><div>DF</div>SPMS-2200 - <a href="#">I_TrafficManagementSystem</a></div>
		<div><div>DF</div>SPMS-3174 - <a href="#">Usage restriction state</a> + (Role: _C2P_involved_links)</div>	• <div><div>DF</div>SPMS-2963 - <a href="#">HMI_Signaller_01</a></div>	<div><div>DF</div>SPMS-2219 - <a href="#">Usage restriction state</a></div>	• <div><div>DF</div>SPMS-2198 - <a href="#">HMI_Signaller</a></div>
	<div><div>TSR</div>SPMS-7249 - <a href="#">Deactivate usage restriction (Unplanned TSR)</a></div>	<div><div>SF</div>SPMS-2843 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)</div>	• <div><div>TM</div>SPMS-2813 - <a href="#">Traffic Management System</a></div>	<div><div>SF</div>SPMS-2148 - <a href="#">Calculate operational traffic plan</a></div>	• <div><div>TM</div>SPMS-2097 - <a href="#">Traffic Management System</a></div>
				<div><div>SF</div>SPMS-4875 - <a href="#">Calculate operational traffic plan</a></div>	• <div><div>TM</div>SPMS-5111 - <a href="#">Traffic Management System</a></div>
		<div><div>SF</div>SPMS-2853 - <a href="#">Supervise state of the railway</a> + (Role: _C2P_involved_functions)</div>	• <div><div>TM</div>SPMS-2827 - <a href="#">Signaller</a></div>	<div><div>SF</div>SPMS-2167 - <a href="#">Supervise state of railway operation</a></div>	• <div><div>TM</div>SPMS-2090 - <a href="#">Signaller</a></div>


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2929 - Control usage restrictions + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2159 - Control usage restriction areas	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-5723 - Control usage restriction area request	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-5724 - Authorise usage restriction areas	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
 SPMS-5041 - Shorten movement permission	 SPMS-5047 - Shorten movement permission (Operational plan change, accepted)	 SPMS-2836 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2822 - Driver</li> </ul>	 SPMS-2106 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li>•  SPMS-2096 - Driver</li> </ul>
		 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li>•  SPMS-2090 - Signaller</li> </ul>
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
	 SPMS-5131 - Shorten movement permission (Operational plan change, rejected)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4873 - Calculate safe speed profiles	 SPMS-5063 - European Train Control System On-board
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2836 - Control relative traction and braking effort manually	 SPMS-2822 - Driver		 SPMS-2096 - Driver

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5170 - Shorten movement permission (Signaller request, accepted)	+ _C2P_involved_functions) (Role:		SPMS-2106 - Control relative traction and braking effort manually	
				SPMS-5502 - Control relative traction and braking effort manually	• SPMS-5105 - Driver
		SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	• SPMS-2813 - Traffic Management System	SPMS-2148 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System
				SPMS-4875 - Calculate operational traffic plan	• SPMS-5111 - Traffic Management System
		SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	• SPMS-2827 - Signaller	SPMS-2167 - Supervise state of railway operation	• SPMS-2090 - Signaller
				SPMS-4908 - Supervise state of the railway	• SPMS-5110 - Signaller
		SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	• SPMS-2807 - Train CS System	SPMS-2137 - Ensure safe movement of trains	• SPMS-2098 - CCS System
				SPMS-4873 - Calculate safe speed profiles	• SPMS-5063 - European Train Control System On-board
		SPMS-2874 - Control track path allocation for movement permissions + _C2P_involved_functions) (Role:	• SPMS-2823 - Traffic CS System	SPMS-2137 - Ensure safe movement of trains	• SPMS-2098 - CCS System
				SPMS-4878 - Control execution of movement permission request	• SPMS-5060 - Plan Execution System
				SPMS-4883 - Authorise movement permissions	• SPMS-5062 - European Trackside Protection System
				SPMS-5355 - Report operating state	• SPMS-5060 - Plan Execution System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5171 - Shorten movement permission (Signaller request, rejected)	 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions (Role:	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation  SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains  SPMS-4873 - Calculate safe speed profiles	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + _C2P_involved_functions (Role:	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains  SPMS-4878 - Control execution of movement permission request  SPMS-4883 - Authorise movement permissions  SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> <li> SPMS-5060 - Plan Execution System</li> <li> SPMS-5062 - European Trackside Protection System</li> <li> SPMS-5060 - Plan Execution System</li> </ul>
	SPMS-5426 - Shorten movement permission (Cooperative shortening of movement permission)	 SPMS-2836 - Control relative traction and braking effort manually + _C2P_involved_functions (Role:	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>	 SPMS-2106 - Control relative traction and braking effort manually  SPMS-5502 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> <li> SPMS-5105 - Driver</li> </ul>
		 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions (Role:	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan  SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> <li> SPMS-5111 - Traffic Management System</li> </ul>





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div><div><div><div></div><div>SF</div></div></div><div>SPMS-2853 - Supervise state of the railway</div><div>+</div><div>(Role: _C2P_involved_functions)</div></div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2827 - Signaller</div></div>	<div><div><div><div></div><div>SF</div></div></div><div>SPMS-2167 - Supervise state of railway operation</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2090 - Signaller</div></div>
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-4908 - Supervise state of the railway</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-5110 - Signaller</div></div>	
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-2872 - Calculate safe speed profiles of one train</div><div>+</div><div>(Role: _C2P_involved_functions)</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2807 - Train CS System</div></div>	<div><div><div><div></div><div>SF</div></div></div><div>SPMS-2137 - Ensure safe movement of trains</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2098 - CCS System</div></div>
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-4873 - Calculate safe speed profiles</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-5063 - European Train Control System On-board</div></div>	
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-2874 - Control track path allocation for movement permissions</div><div>+</div><div>(Role: _C2P_involved_functions)</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2823 - Traffic CS System</div></div>	<div><div><div><div></div><div>SF</div></div></div><div>SPMS-2137 - Ensure safe movement of trains</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2098 - CCS System</div></div>
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-4878 - Control execution of movement permission request</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-5060 - Plan Execution System</div></div>	
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-4883 - Authorise movement permissions</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-5062 - European Trackside Protection System</div></div>	
		<div><div><div><div></div><div>SF</div></div></div><div>SPMS-5355 - Report operating state</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-5060 - Plan Execution System</div></div>	
		<div><div><div><div></div><div>D</div></div></div><div>SPMS-3044 - Allocated track path</div><div>+</div><div>(Role: _C2P_involved_links)</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2963 - HMI_Signaller_01</div></div>	<div><div><div><div></div><div>D</div></div></div><div>SPMS-6396 - Indicated track section state</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-6305 - HMI_Signaller</div></div>
		<div><div><div><div></div><div>D</div></div></div><div>SPMS-6432 - Authorised movement permission</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-6985 - I_Signaller</div></div>	
		<div><div><div><div></div><div>D</div></div></div><div>SPMS-7230 - Authorised distance and speed restriction</div></div>		<div><div><div><div></div><div></div></div></div><div>• SPMS-2198 - HMI_Signaller</div></div>	
		<div><div><div><div></div><div>D</div></div></div><div>SPMS-3052 - Allocated track path</div><div>+</div><div>(Role: _C2P_involved_links)</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2958 - I_TrafficManagementSystem_01</div></div>	<div><div><div><div></div><div>D</div></div></div><div>SPMS-2249 - Authorised distance and speed restriction</div></div>	<div><div><div><div></div><div></div></div></div><div>• SPMS-2200 - I_TrafficManagementSystem</div></div>
		<div><div><div><div></div><div>D</div></div></div><div>SPMS-6416 - Reported operating state</div></div>			






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-6431 - to be deleted	<ul style="list-style-type: none"> <li>  SPMS-6308 - SCI_CMD           </li> </ul>
		 SPMS-3065 - Allocated track path + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>  SPMS-2952 - I_CCS_1           </li> </ul>	 SPMS-6393 - Authorised movement permission	<ul style="list-style-type: none"> <li>  SPMS-6306 - I_SUBSET_026           </li> </ul>
		 SPMS-3079 - Required operational traffic plan + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>  SPMS-2958 - I_TrafficManagementSystem_01           </li> </ul>	 SPMS-2351 - Required operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2200 - I_TrafficManagementSystem           </li> </ul>
		 SPMS-3123 - Requested track path + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>  SPMS-2963 - HMI_Signaller_01           </li> </ul>	 SPMS-2347 - Requested track path	<ul style="list-style-type: none"> <li>  SPMS-2198 - HMI_Signaller           </li> </ul>
				 SPMS-6413 - Register input	
				 SPMS-6417 - Requested input for movement permission	<ul style="list-style-type: none"> <li>  SPMS-6305 - HMI_Signaller           </li> </ul>
		 SPMS-3191 - Calculated supervision limits + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>  SPMS-2961 - DMI_Driver_Machine_Interface           </li> </ul>	 SPMS-2326 - Authorised distance and speed restriction	<ul style="list-style-type: none"> <li>  SPMS-2204 - DMI_Driver_Machine_Interface           </li> </ul>
				 SPMS-6354 - Calculated supervision limits	
		 SPMS-5424 - Respond and request for movement authority data + _C2P_involved_links) (Role:	<ul style="list-style-type: none"> <li>  SPMS-2952 - I_CCS_1           </li> </ul>	 SPMS-6434 - Responded train-specific authorisation	<ul style="list-style-type: none"> <li>  SPMS-6306 - I_SUBSET_026           </li> </ul>
	 SPMS-5684 - Shorten movement permission (Operational plan change, accepted - Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li>  SPMS-2813 - Traffic Management System           </li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2097 - Traffic Management System           </li> </ul>
				 SPMS-4875 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-5111 - Traffic Management System           </li> </ul>













































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>	 SPMS-4873 - Calculate safe speed profiles + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>
	 SPMS-5685 - Shorten movement permission (Signaller request, accepted - Traffic CS view)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>












































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)</div>	<div><div>🚂</div>SPMS-2807 - Train CS System</div>	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	<div><div>🚂</div>SPMS-2098 - CCS System</div>
		<div><div>SF</div>SPMS-4873 - Calculate safe speed profiles</div>		<div><div>🚂</div>SPMS-5063 - European Train Control System On-board</div>	
		<div><div>SF</div>SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)</div>	<div><div>🚂</div>SPMS-2823 - Traffic CS System</div>	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	<div><div>🚂</div>SPMS-2098 - CCS System</div>
		<div><div>SF</div>SPMS-4878 - Control execution of movement permission request</div>		<div><div>🚂</div>SPMS-5060 - Plan Execution System</div>	
		<div><div>SF</div>SPMS-4883 - Authorise movement permissions</div>		<div><div>🚂</div>SPMS-5062 - European Trackside Protection System</div>	
		<div><div>SF</div>SPMS-5355 - Report operating state</div>		<div><div>🚂</div>SPMS-5060 - Plan Execution System</div>	
<div><div>C</div>SPMS-5143 - Perform train movement</div>	<div><div>🚂</div>SPMS-6096 - Perform train movement</div>				
	<div><div>🚂</div>SPMS-6176 - Perform train movement</div>				
<div><div>C</div>SPMS-5144 - Set point position</div>	<div><div>🚂</div>SPMS-4869 - Set point position</div>	<div><div>SF</div>SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)</div>	<div><div>👤</div>SPMS-5111 - Traffic Management System</div>	<div><div>SF</div>SPMS-2843 - Calculate operational traffic plan</div>	<div><div>👤</div>SPMS-2813 - Traffic Management System</div>
		<div><div>SF</div>SPMS-4877 - Control execution of switchable trackside asset request + (Role: _C2P_involved_functions)</div>	<div><div>🚂</div>SPMS-5060 - Plan Execution System</div>	<div><div>SF</div>SPMS-5265 - Control target state of one point</div>	<div><div>🚂</div>SPMS-2823 - Traffic CS System</div>
		<div><div>SF</div>SPMS-4885 - Determine required position of one point machine + (Role: _C2P_involved_functions)</div>	<div><div>🚂</div>SPMS-5068 - Subsystem - Point</div>	<div><div>SF</div>SPMS-2851 - Determine required position of one point machine</div>	<div><div>🚂</div>SPMS-2818 - Trackside Assets CS System</div>
		<div><div>SF</div>SPMS-4888 - Observe point status + (Role: _C2P_involved_functions)</div>	<div><div>🚂</div>SPMS-5062 - European Trackside Protection System</div>	<div><div>SF</div>SPMS-2886 - Observe point status</div>	<div><div>🚂</div>SPMS-2823 - Traffic CS System</div>




























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4900 - <a href="#">Sense+Observe point position</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5068 - <a href="#">Subsystem - Point</a></li> </ul>	 SPMS-2914 - <a href="#">Sense+Observe position of one point</a>	<ul style="list-style-type: none"> <li> SPMS-2818 - <a href="#">Trackside Assets CS System</a></li> </ul>
		 SPMS-4903 - <a href="#">Authorise target position of point</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - <a href="#">European Trackside Protection System</a></li> </ul>	 SPMS-5265 - <a href="#">Control target state of one point</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-4908 - <a href="#">Supervise state of the railway</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - <a href="#">Signaller</a></li> </ul>	 SPMS-2853 - <a href="#">Supervise state of the railway</a>	<ul style="list-style-type: none"> <li> SPMS-2827 - <a href="#">Signaller</a></li> </ul>
		 SPMS-4911 - <a href="#">Register trackside asset input request</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - <a href="#">Signaller Control Panel</a></li> </ul>		
		 SPMS-4913 - <a href="#">Indicate point status</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - <a href="#">Signaller Control Panel</a></li> </ul>		
		 SPMS-5355 - <a href="#">Report operating state</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - <a href="#">Plan Execution System</a></li> </ul>	 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2886 - <a href="#">Observe point status</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2944 - <a href="#">Aggregate movable objects information</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-6347 - <a href="#">Calculated operational traffic plan</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6302 - <a href="#">SCI_OP_01</a></li> </ul>	 SPMS-3079 - <a href="#">Required operational traffic plan</a>	<ul style="list-style-type: none"> <li> SPMS-2958 - <a href="#">I_TrafficManagementSystem_01</a></li> </ul>
		 SPMS-6357 - <a href="#">Commanded point position state</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6310 - <a href="#">SCI_P</a></li> </ul>	 SPMS-3227 - <a href="#">Required point position</a>	<ul style="list-style-type: none"> <li> SPMS-2953 - <a href="#">I_CCS_2</a></li> </ul>
		 SPMS-6384 - <a href="#">Observed point position</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6310 - <a href="#">SCI_P</a></li> </ul>		
		 SPMS-6395 - <a href="#">Indicated point status</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - <a href="#">HMI_Signaller</a></li> </ul>		

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6409 - <a href="#">Observed point status</a> + (Role: _C2P_involved_links)	•  SPMS-6308 - <a href="#">SCI_CMD</a>		
		 SPMS-6411 - <a href="#">Observed point status</a> + (Role: _C2P_involved_links)	•  SPMS-6308 - <a href="#">SCI_CMD</a>		
		 SPMS-6414 - <a href="#">Registered input</a> + (Role: _C2P_involved_links)			
		 SPMS-6416 - <a href="#">Reported operating state</a> + (Role: _C2P_involved_links)		 SPMS-3052 - <a href="#">Allocated track path</a>	•  SPMS-2958 - <a href="#">I_TrafficManagementSystem_01</a>
		 SPMS-6418 - <a href="#">Requested input for trackside assets</a> + (Role: _C2P_involved_links)	•  SPMS-6305 - <a href="#">HMI_Signaller</a>		
		 SPMS-6422 - <a href="#">Requested point position</a> + (Role: _C2P_involved_links)	•  SPMS-6308 - <a href="#">SCI_CMD</a>		
		 SPMS-6440 - <a href="#">observed point status</a> + (Role: _C2P_involved_links)	•  SPMS-6985 - <a href="#">I_Signaller</a>		
		 SPMS-7904 - <a href="#">Commanded point position state</a> + (Role: _C2P_involved_links)			
	 SPMS-5015 - <a href="#">Set point position (Left to right, Operational plan)</a>	 SPMS-4877 - <a href="#">Control execution of switchable trackside asset request</a> + (Role: _C2P_involved_functions)	•  SPMS-5060 - <a href="#">Plan Execution System</a>	 SPMS-5265 - <a href="#">Control target state of one point</a>	•  SPMS-2823 - <a href="#">Traffic CS System</a>
		 SPMS-4903 - <a href="#">Authorise target position of point</a> + (Role: _C2P_involved_functions)	•  SPMS-5062 - <a href="#">European Trackside Protection System</a>	 SPMS-5265 - <a href="#">Control target state of one point</a>	•  SPMS-2823 - <a href="#">Traffic CS System</a>
	 SPMS-5796 - <a href="#">Set point position (Left to right, Signaller, accepted)</a>	 SPMS-4877 - <a href="#">Control execution of switchable trackside asset request</a> + (Role: _C2P_involved_functions)	•  SPMS-5060 - <a href="#">Plan Execution System</a>	 SPMS-5265 - <a href="#">Control target state of one point</a>	•  SPMS-2823 - <a href="#">Traffic CS System</a>


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4903 - Authorise target position of point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-5265 - Control target state of one point	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
	 SPMS-7751 - Set point position (Left to right, Point subsystem view)	 SPMS-4885 - Determine required position of one point machine + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5068 - Subsystem - Point</li> </ul>	 SPMS-2851 - Determine required position of one point machine	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>
		 SPMS-4888 - Observe point status + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4889 - Exert force on point rails + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5107 - Point Machine</li> </ul>	 SPMS-2932 - Exert force on point rails	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>
		 SPMS-4891 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5107 - Point Machine</li> </ul>	 SPMS-2942 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>
		 SPMS-4900 - Sense+Observe point position + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5068 - Subsystem - Point</li> </ul>	 SPMS-2914 - Sense+Observe position of one point	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>
		 SPMS-4903 - Authorise target position of point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-5265 - Control target state of one point	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
	 SPMS-7752 - Set point position (Left to right)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4885 - Determine required position of one point machine	<ul style="list-style-type: none"> <li> SPMS-5068 - Subsystem - Point</li> </ul>	 SPMS-2851 - Determine required	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		position of one point machine	
		 SPMS-4888 - Observe point status + _C2P_involved_functions) (Role:	•  SPMS-5062 - European Trackside Protection System	 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
		 SPMS-4900 - Sense+Observe point position + _C2P_involved_functions) (Role:	•  SPMS-5068 - Subsystem - Point	 SPMS-2914 - Sense+Observe position of one point	•  SPMS-2818 - Trackside Assets CS System
		 SPMS-4908 - Supervise state of the railway + _C2P_involved_functions) (Role:	•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-4913 - Indicate point status + _C2P_involved_functions) (Role:	•  SPMS-6984 - Signaller Control Panel		
		 SPMS-5355 - Report operating state + _C2P_involved_functions) (Role:	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
	 SPMS-7818 - Set point position (Left to right, Signaller, rejected by PES)			 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-4877 - Control execution of switchable trackside asset request + _C2P_involved_functions) (Role:	•  SPMS-5060 - Plan Execution System	 SPMS-5265 - Control target state of one point	•  SPMS-2823 - Traffic CS System
		 SPMS-4908 - Supervise state of the railway + _C2P_involved_functions) (Role:	•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	•  SPMS-6984 - Signaller Control Panel		
		 SPMS-4913 - Indicate point status + _C2P_involved_functions) (Role:	•  SPMS-6984 - Signaller Control Panel		






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	 SPMS-7819 - Set point position (Left to right, Signaller, rejected by ETPS)	 SPMS-4877 - Control execution of switchable trackside asset request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-5265 - Control target state of one point	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4903 - Authorise target position of point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-5265 - Control target state of one point	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-4913 - Indicate point status + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
 SPMS-5145 - Paused Activate level crossing	 SPMS-4867 - Activate level crossing	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-5066 - Subsystem - Level Crossing </li> </ul>	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-5106 - Level Crossing Protection Facility </li> </ul>	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li>  SPMS-2817 - Level Crossing Protection Facility </li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-5110 - Signaller </li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>  SPMS-2827 - Signaller </li> </ul>
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-6984 - Signaller Control Panel </li> </ul>		
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-5060 - Plan Execution System </li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions   SPMS-2886 - Observe point status   SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li>  SPMS-2823 - Traffic CS System </li> <li>  SPMS-2823 - Traffic CS System </li> <li>  SPMS-2823 - Traffic CS System </li> </ul>
		 SPMS-6355 - Paused Commanded level crossing state + (Role: _C2P_involved_links)			































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6383 - Paused Observed level crossing protection facility state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6297 - I_LevelCrossingProtectionFacility</li> </ul>	 SPMS-3159 - Paused Observed level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)</li> </ul>
		 SPMS-6388 - Paused Observed protection state + (Role: _C2P_involved_links)			
		 SPMS-6404 - Observed level crossing status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6985 - I_Signaller</li> </ul>		
		 SPMS-6416 - Reported operating state + (Role: _C2P_involved_links)		 SPMS-3052 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
		 SPMS-6418 - Requested input for trackside assets + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - HMI_Signaller</li> </ul>		
		 SPMS-6428 - Paused Required protection facility state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6297 - I_LevelCrossingProtectionFacility</li> </ul>	 SPMS-3010 - Paused Required protection facility state	<ul style="list-style-type: none"> <li> SPMS-2966 - I_LevelCrossingProtectionFacility (If part of release interface needs to be connected again with TACS)</li> </ul>
	 SPMS-5013 - Activate level crossing (Operational plan)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>













































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	•  SPMS-5066 - Subsystem - Level Crossing	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-5066 - Subsystem - Level Crossing	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-5106 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
			•  SPMS-5111 - Traffic Management System		•  SPMS-2813 - Traffic Management System














System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-6135 - Activate level crossing (Signaller request)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)		 SPMS-2843 - Calculate operational traffic plan	
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5106 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	 SPMS-5066 - Subsystem - Level Crossing	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5066 - Subsystem - Level Crossing	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5106 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
			 SPMS-5110 - Signaller		 SPMS-2827 - Signaller

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)		 SPMS-2853 - Supervise state of the railway	
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
	 SPMS-6136 - Activate level crossing (Train approaching)	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li>•  SPMS-2817 - Level Crossing Protection Facility</li> </ul>




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
	 SPMS-5177 - Shorten movement permission		<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>		<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-5172 - Shorten movement permission	(Operational plan change, accepted)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)		 SPMS-2843 - Calculate operational traffic plan	
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
	 SPMS-5221 - Shorten movement permission (Operational plan change, rejected)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
	 SPMS-5222 - Shorten movement permission (Signaller request, accepted)	 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-5190 - Register movement permission input request + (Role: _C2P_involved_functions)	 SPMS-6984 - Signaller Control Panel		
	 SPMS-5223 - Shorten movement permission (Signaller request, rejected)	 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	 SPMS-6984 - Signaller Control Panel		







































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5474 - Shorten movement permission (Cooperative shortening of movement permission)	 SPMS-5190 - Register movement permission input request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4873 - Calculate safe speed profiles + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>	 SPMS-2872 - Calculate safe speed profiles of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-5190 - Register movement permission input request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions   SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> <li> SPMS-2823 - Traffic CS System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-6332 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-6985 - I_Signaller		
		 SPMS-6334 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-6308 - SCI_CMD		
		 SPMS-6351 - Calculated operational traffic plan + (Role: _C2P_involved_links)			
		 SPMS-6393 - Authorised movement permission + (Role: _C2P_involved_links)	 SPMS-6306 - I_SUBSET_026	 SPMS-3065 - Allocated track path	 SPMS-2952 - I_CCS_1
		 SPMS-6396 - Indicated track section state + (Role: _C2P_involved_links)	 SPMS-6305 - HMI_Signaller	 SPMS-3044 - Allocated track path	 SPMS-2963 - HMI_Signaller_01
		 SPMS-6413 - Register input + (Role: _C2P_involved_links)		 SPMS-3123 - Requested track path	 SPMS-2963 - HMI_Signaller_01
		 SPMS-6416 - Reported operating state + (Role: _C2P_involved_links)		 SPMS-3052 - Allocated track path	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-6417 - Requested input for movement permission + (Role: _C2P_involved_links)	 SPMS-6305 - HMI_Signaller	 SPMS-3123 - Requested track path	 SPMS-2963 - HMI_Signaller_01
		 SPMS-6421 - Requested movement permisison + (Role: _C2P_involved_links)	 SPMS-6308 - SCI_CMD		
		 SPMS-6434 - Responded train-specific authorisation + (Role: _C2P_involved_links)	 SPMS-6306 - I_SUBSET_026	 SPMS-5424 - Respond and request for movement authority data	 SPMS-2952 - I_CCS_1








































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6441 - <a href="#">Authorised movement permission</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-6308 - <a href="#">SCI_CMD</a></li> </ul>		
		 SPMS-6442 - <a href="#">Responded operational traffic plan</a> + (Role: _C2P_involved_links)			
		 SPMS-7953 - <a href="#">Authorised movement permission</a> + (Role: _C2P_involved_links)			
	 SPMS-7785 - <a href="#">Shorten movement permission (accepted)</a>	 SPMS-4871 - <a href="#">Aggregate movable object information</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - <a href="#">European Trackside Protection System</a></li> </ul>	 SPMS-2944 - <a href="#">Aggregate movable objects information</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-4873 - <a href="#">Calculate safe speed profiles</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5063 - <a href="#">European Train Control System On-board</a></li> </ul>	 SPMS-2872 - <a href="#">Calculate safe speed profiles of one train</a>	<ul style="list-style-type: none"> <li>•  SPMS-2807 - <a href="#">Train CS System</a></li> </ul>
		 SPMS-4875 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5111 - <a href="#">Traffic Management System</a></li> </ul>	 SPMS-2843 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"> <li>•  SPMS-2813 - <a href="#">Traffic Management System</a></li> </ul>
		 SPMS-4878 - <a href="#">Control execution of movement permission request</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - <a href="#">Plan Execution System</a></li> </ul>	 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-4883 - <a href="#">Authorise movement permissions</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - <a href="#">European Trackside Protection System</a></li> </ul>	 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-4908 - <a href="#">Supervise state of the railway</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5110 - <a href="#">Signaller</a></li> </ul>	 SPMS-2853 - <a href="#">Supervise state of the railway</a>	<ul style="list-style-type: none"> <li>•  SPMS-2827 - <a href="#">Signaller</a></li> </ul>
		 SPMS-4910 - <a href="#">Indicate track section state</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - <a href="#">Signaller Control Panel</a></li> </ul>		
		 SPMS-5355 - <a href="#">Report operating state</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - <a href="#">Plan Execution System</a></li> </ul>	 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>

















































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
	 SPMS-7800 - Shorten movement permission (rejected)	 SPMS-4873 - Calculate safe speed profiles + (Role: _C2P_involved_functions)	•  SPMS-5063 - European Train Control System On-board	 SPMS-2872 - Calculate safe speed profiles of one train	•  SPMS-2807 - Train CS System
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
	 SPMS-5187 - Activate usage restriction	 SPMS-5189 - Activate usage restriction	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan
 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)			•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)			•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
 SPMS-5723 - Control usage restriction area request + (Role: _C2P_involved_functions)			•  SPMS-5060 - Plan Execution System	 SPMS-2929 - Control usage restrictions	•  SPMS-2823 - Traffic CS System



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5724 - Authorise usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"><li> SPMS-5062 - European Trackside Protection System</li></ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"><li> SPMS-2823 - Traffic CS System</li></ul>
		 SPMS-5726 - Indicate usage restriction + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"><li> SPMS-6984 - Signaller Control Panel</li></ul>		
		 SPMS-6344 - Authorised usage restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"><li> SPMS-6308 - SCI_CMD</li></ul>		
		 SPMS-6346 - Authorised usage restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"><li> SPMS-6308 - SCI_CMD</li></ul>		
		 SPMS-6353 - Calculated operational traffic plan + (Role: _C2P_involved_links)			
		 SPMS-6416 - Reported operating state + (Role: _C2P_involved_links)		 SPMS-3052 - Allocated track path	<ul style="list-style-type: none"><li> SPMS-2958 - I_TrafficManagementSystem_01</li></ul>
		 SPMS-6424 - Requested usage restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"><li> SPMS-6308 - SCI_CMD</li></ul>		
		 SPMS-6426 - Requested usage restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"><li> SPMS-6985 - I_Signaller</li></ul>		
		 SPMS-6452 - requested usage restriction to signaller + (Role: _C2P_involved_links)	<ul style="list-style-type: none"><li> SPMS-6985 - I_Signaller</li></ul>		
		 SPMS-6591 - Register usage restriction command + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"><li> SPMS-6984 - Signaller Control Panel</li></ul>		
		 SPMS-6593 - Indicated usage restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"><li> SPMS-6305 - HMI_Signaller</li></ul>		
			<ul style="list-style-type: none"><li> SPMS-6305 - HMI_Signaller</li></ul>		


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5224 - Activate usage restriction (Planned usage restriction)	 SPMS-6594 - Register Input + (Role: _C2P_involved_links)			
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-5723 - Control usage restriction area request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-5724 - Authorise usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
	SPMS-7835 - Activate usage restriction (Unplanned TSR)	 SPMS-5726 - Indicate usage restriction + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-6591 - Register usage restriction command + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-5355 - Report operating state</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>SPMS-5060 - Plan Execution System</div></div>	<div><div>SF</div>SPMS-2874 - Control track path allocation for movement permissions</div>	<div><div>SPMS-2823 - Traffic CS System</div></div>
		<div><div>SF</div>SPMS-2886 - Observe point status</div>		<div><div>SPMS-2823 - Traffic CS System</div></div>	
		<div><div>SF</div>SPMS-2944 - Aggregate movable objects information</div>		<div><div>SPMS-2823 - Traffic CS System</div></div>	
		<div><div>SF</div>SPMS-5724 - Authorise usage restriction areas</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>SPMS-5062 - European Trackside Protection System</div></div>	<div><div>SF</div>SPMS-2929 - Control usage restrictions</div>	<div><div>SPMS-2823 - Traffic CS System</div></div>
		<div><div>SF</div>SPMS-5726 - Indicate usage restriction</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>SPMS-6984 - Signaller Control Panel</div></div>		
		<div><div>SF</div>SPMS-6591 - Register usage restriction command</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>SPMS-6984 - Signaller Control Panel</div></div>		
<div><div>C</div>SPMS-5295 - Grant movement permission</div>	<div><div>SPMS-5298 - Grant movement permission</div></div>	<div><div>SF</div>SPMS-2106 - Control relative traction and braking effort manually</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>SPMS-2096 - Driver</div></div>	<div><div>SF</div>SPMS-2836 - Control relative traction and braking effort manually</div>	<div><div>SPMS-2822 - Driver</div></div>
		<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>		<div><div>SPMS-2098 - CCS System</div></div>	<div><div>SF</div>SPMS-2872 - Calculate safe speed profiles of one train</div>
		<div><div>SF</div>SPMS-2874 - Control track path allocation for movement permissions</div>	<div><div>SPMS-2823 - Traffic CS System</div></div>		
		<div><div>SF</div>SPMS-2897 - Supervise standstill of one train</div>	<div><div>SPMS-2807 - Train CS System</div></div>		
		<div><div>SF</div>SPMS-2921 - Supervise compliance of speed profiles of one train</div>	<div><div>SPMS-2807 - Train CS System</div></div>		
		<div><div>SF</div>SPMS-7115 - Acknowledge train data</div>	<div><div>SPMS-2823 - Traffic CS System</div></div>		






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2158 - Supervise guideway of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2933 - Supervise guideway of one train	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-2180 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2870 - Control automatic driving speed of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-5332 - Generate train-specific timetable information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2225 - Authorised distance and speed restriction + (Role: _C2P_involved_links)		 SPMS-3072 - Calculated supervision limits	
		 SPMS-2249 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2200 - I_TrafficManagementSystem</li> </ul>	 SPMS-3052 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
		 SPMS-2325 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2204 - DMI_Driver_Machine_Interface</li> </ul>	 SPMS-3190 - Calculated supervision limits	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>
		 SPMS-2326 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2204 - DMI_Driver_Machine_Interface</li> </ul>	 SPMS-3191 - Calculated supervision limits	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>
		 SPMS-2347 - Requested track path + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2198 - HMI_Signaller</li> </ul>	 SPMS-3123 - Requested track path	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>
		 SPMS-2351 - Required operational traffic plan + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2200 - I_TrafficManagementSystem</li> </ul>	 SPMS-3079 - Required operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
			<ul style="list-style-type: none"> <li> SPMS-2204 - DMI_Driver_Machine_Interface</li> </ul>	 SPMS-6981 - Acknowledged permission	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6694 - Acknowledged permission + (Role: _C2P_involved_links)			
		 SPMS-7230 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2198 - HMI_Signaller</li> </ul>	 SPMS-3044 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>
	 SPMS-5361 - Grant movement permission (Operational plan)	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2872 - Calculate safe speed profiles of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2897 - Supervise standstill of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2921 - Supervise compliance of speed profiles of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-7115 - Acknowledge train data	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
	 SPMS-5514 - Grant movement permission (Signaller request)	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>











































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)		 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
	 SPMS-6869 - Grant movement permission (Operational plan, On sight)	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2836 - Control relative traction and braking effort manually	 SPMS-2822 - Driver
		 SPMS-2134 - Authorise automatic driving state + (Role: _C2P_involved_functions)		 SPMS-2907 - Authorise automatic driving state	 SPMS-2822 - Driver
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
					 SPMS-2807 - Train CS System




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2897 - Supervise standstill of one train	
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2180 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2870 - Control automatic driving speed of one train	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
	 SPMS-7158 - Grant movement permission (Operational plan, Staff Responsible)	 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2836 - Control relative traction and braking effort manually	 SPMS-2822 - Driver
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
					 SPMS-2807 - Train CS System














































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2921 - Supervise compliance of speed profiles of one train	
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
 SPMS-5296 - Release movement permission	 SPMS-5316 - Release movement permission	 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2192 - Sense+Observe motion of one train + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2878 - Determine position and state of one train	 SPMS-2807 - Train CS System
































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2880 - Measure+Estimate 1D acceleration of one train	 SPMS-2807 - Train CS System
				 SPMS-2892 - Measure+Estimate 1D speed of one train front end	 SPMS-2807 - Train CS System
				 SPMS-2919 - Sense+Observe track vacancy proving section state	 SPMS-2818 - Trackside Assets CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2249 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3052 - Allocated track path	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2303 - Estimated motion state + (Role: _C2P_involved_links)		 SPMS-3021 - Aggregated track occupancy and train status information	
		 SPMS-7230 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2198 - HMI_Signaller	 SPMS-3044 - Allocated track path	 SPMS-2963 - HMI_Signaller_01
	 SPMS-5362 - Release movement permission	 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
 SPMS-5297 - Drive train automatically	 SPMS-5359 - Drive train automatically	 SPMS-2134 - Authorise automatic driving state + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2907 - Authorise automatic driving state	 SPMS-2822 - Driver
		 SPMS-2146 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-2837 - Implement specific traction and braking effort	 SPMS-2820 - Rolling Stock Operation System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2158 - Supervise guideway of one train + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2933 - Supervise guideway of one train	 SPMS-2822 - Driver
		 SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2862 - Calculate information to support driving	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
		 SPMS-2177 - Supervise passenger exchange + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-4560 - Supervise passenger exchange	 SPMS-2822 - Driver
			 SPMS-2098 - CCS System		 SPMS-2807 - Train CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2180 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)		 SPMS-2870 - Control automatic driving speed of one train	
				 SPMS-5332 - Generate train-specific timetable information	•  SPMS-2823 - Traffic CS System
		 SPMS-2245 - Applied level of traction and brake effort + (Role: _C2P_involved_links)	•  SPMS-2195 - I_SUBSET_139	 SPMS-3051 - Applied level of traction and brake effort	•  SPMS-4493 - I_SUBSET_139
		 SPMS-2247 - Authorised automatic driving state + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3055 - Authorised automatic driving state	•  SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2302 - Estimated motion state + (Role: _C2P_involved_links)		 SPMS-3154 - Determined train position and state	
				 SPMS-3169 - Estimated speed	
		 SPMS-2308 - Estimated motion state + (Role: _C2P_involved_links)		 SPMS-6993 - Determined train position and state	
		 SPMS-2321 - Indicated automatic driving state + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3185 - Indicated automatic driving state	•  SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2328 - Indicated supporting information + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3187 - Indicated supporting information	•  SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2329 - Indicated supporting information + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-4561 - Indicated supporting information	•  SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2354 - Required operational traffic plan + (Role: _C2P_involved_links)	•  SPMS-2200 - I_TrafficManagementSystem	 SPMS-3182 - Generated train-specific timetable and infrastructure information	•  SPMS-2952 - I_CCS_1
				 SPMS-5333 - Required operational traffic plan	•  SPMS-2958 - I_TrafficManagementSystem_01

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2360 - Required operational traffic plan + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2200 - I_TrafficManagementSystem</li> </ul>	 SPMS-3067 - Generated train-specific timetable information	<ul style="list-style-type: none"> <li> SPMS-2952 - I_CCS_1</li> </ul>
				 SPMS-5333 - Required operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
	 SPMS-5444 - Drive train automatically	 SPMS-2365 - Required relative traction and brake effort + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2195 - I_SUBSET_139</li> </ul>	 SPMS-3014 - Required relative traction and brake effort	<ul style="list-style-type: none"> <li> SPMS-4493 - I_SUBSET_139</li> </ul>
		 SPMS-2106 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2134 - Authorise automatic driving state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2907 - Authorise automatic driving state	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2146 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2094 - Rolling Stock Operation System</li> </ul>	 SPMS-2837 - Implement specific traction and braking effort	<ul style="list-style-type: none"> <li> SPMS-2820 - Rolling Stock Operation System</li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2158 - Supervise guideway of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2933 - Supervise guideway of one train	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2862 - Calculate information to support driving	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-5332 - Generate train-specific timetable information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2177 - Supervise passenger exchange + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-4560 - Supervise passenger exchange	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2180 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2870 - Control automatic driving speed of one train	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
 SPMS-5345 - Release movement permission	 SPMS-5364 - Release movement permission	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-3021 - Aggregated track occupancy and train status information + _C2P_involved_links (Role:		 SPMS-2303 - Estimated motion state	
		 SPMS-3044 - Allocated track path + _C2P_involved_links (Role:	 SPMS-2963 - HMI_Signaller_01	 SPMS-6396 - Indicated track section state	 SPMS-6305 - HMI_Signaller
		 SPMS-3052 - Allocated track path + _C2P_involved_links (Role:	 SPMS-2958 - I_TrafficManagementSystem_01	 SPMS-6432 - Authorised movement permission	 SPMS-6985 - I_Signaller
				 SPMS-7230 - Authorised distance and speed restriction	 SPMS-2198 - HMI_Signaller
				 SPMS-2249 - Authorised distance and speed restriction	 SPMS-2200 - I_TrafficManagementSystem
		 SPMS-5369 - Release movement permission	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions (Role:	 SPMS-6416 - Reported operating state	
				 SPMS-6431 - to be deleted	 SPMS-6308 - SCI_CMD
				 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions (Role:	 SPMS-2813 - Traffic Management System	 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
				 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		<div><div>SF</div>SPMS-2874 - Control track path allocation for movement permissions</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>CS</div>SPMS-2823 - Traffic CS System</div>	<div><div>SF</div>SPMS-2137 - Ensure safe movement of trains</div>	<div><div>CS</div>SPMS-2098 - CCS System</div>
		<div><div>SF</div>SPMS-4878 - Control execution of movement permission request</div>		<div><div>CS</div>SPMS-5060 - Plan Execution System</div>	
		<div><div>SF</div>SPMS-4883 - Authorise movement permissions</div>		<div><div>CS</div>SPMS-5062 - European Trackside Protection System</div>	
		<div><div>SF</div>SPMS-5355 - Report operating state</div>		<div><div>CS</div>SPMS-5060 - Plan Execution System</div>	
		<div><div>SF</div>SPMS-2944 - Aggregate movable objects information</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>CS</div>SPMS-2823 - Traffic CS System</div>	<div><div>SF</div>SPMS-2192 - Sense+Observe motion of one train</div>	<div><div>CS</div>SPMS-2098 - CCS System</div>
		<div><div>SF</div>SPMS-4871 - Aggregate movable object information</div>		<div><div>CS</div>SPMS-5062 - European Trackside Protection System</div>	
		<div><div>SF</div>SPMS-5355 - Report operating state</div>		<div><div>CS</div>SPMS-5060 - Plan Execution System</div>	
		<div><div>C</div>SPMS-5346 - Drive train automatically</div>	<div><div>CS</div>SPMS-5365 - Drive train automatically</div>	<div><div>SF</div>SPMS-2837 - Implement specific traction and braking effort</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>RS</div>SPMS-2820 - Rolling Stock Operation System</div>
<div><div>SF</div>SPMS-6100 - Implement specific traction and braking effort</div>	<div><div>RS</div>SPMS-5108 - Rolling Stock Operation System</div>				
<div><div>SF</div>SPMS-2843 - Calculate operational traffic plan</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>TM</div>SPMS-2813 - Traffic Management System</div>			<div><div>SF</div>SPMS-2148 - Calculate operational traffic plan</div>	<div><div>TM</div>SPMS-2097 - Traffic Management System</div>
<div><div>SF</div>SPMS-4875 - Calculate operational traffic plan</div>				<div><div>TM</div>SPMS-5111 - Traffic Management System</div>	
<div><div>SF</div>SPMS-2862 - Calculate information to support driving</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div>CS</div>SPMS-2807 - Train CS System</div>			<div><div>SF</div>SPMS-2160 - Calculate information to support driving</div>	<div><div>CS</div>SPMS-2098 - CCS System</div>

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4895 - Indicate information to support driving	 SPMS-5073 - Multi Display System
				 SPMS-7838 - Calculate information to support driving	 SPMS-5057 - Automatic Train Operation On-board
		 SPMS-2870 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2180 - Control automatic driving speed of one train	 SPMS-2098 - CCS System
				 SPMS-4872 - Control automatic driving speed of one train	 SPMS-5057 - Automatic Train Operation On-board
				 SPMS-4917 - Request+Store journey profile	 SPMS-5057 - Automatic Train Operation On-board
				 SPMS-7846 - Indicate automatic driving state	 SPMS-5073 - Multi Display System
				 SPMS-7847 - Register automatic driving input from driver	 SPMS-5073 - Multi Display System
		 SPMS-2907 - Authorise automatic driving state + (Role: _C2P_involved_functions)	 SPMS-2822 - Driver	 SPMS-2134 - Authorise automatic driving state	 SPMS-2096 - Driver
		 SPMS-2933 - Supervise guideway of one train + (Role: _C2P_involved_functions)	 SPMS-2822 - Driver	 SPMS-7767 - Authorise automatic driving state	 SPMS-5105 - Driver
				 SPMS-2158 - Supervise guideway of one train	 SPMS-2096 - Driver
				 SPMS-7850 - Supervise guideway of one train	 SPMS-5105 - Driver
				 SPMS-2365 - Required relative traction and brake effort	 SPMS-2195 - I_SUBSET_139
		 SPMS-3014 - Required relative traction and brake effort + (Role: _C2P_involved_links)	 SPMS-4493 - I_SUBSET_139		




































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7887 - Required relative traction and brake effort	
		 SPMS-3051 - Applied level of traction and brake effort + (Role: _C2P_involved_links)	•  SPMS-4493 - I_SUBSET_139	 SPMS-2245 - Applied level of traction and brake effort	•  SPMS-2195 - I_SUBSET_139
				 SPMS-7856 - Applied level of traction and brake effort	
		 SPMS-3055 - Authorised automatic driving state + (Role: _C2P_involved_links)	•  SPMS-2961 - DMI_Driver_Machine_Interface	 SPMS-2247 - Authorised automatic driving state	•  SPMS-2204 - DMI_Driver_Machine_Interface
				 SPMS-7772 - Authorised automatic driving state	•  SPMS-6296 - HMI_Driver_Machine_Interface
		 SPMS-3067 - Generated train-specific timetable information + (Role: _C2P_involved_links)	•  SPMS-2952 - I_CCS_1	 SPMS-2360 - Required operational traffic plan	•  SPMS-2200 - I_TrafficManagementSystem
				 SPMS-6392 - Generated journey profile	•  SPMS-6307 - I_SUBSET_126
				 SPMS-7733 - Defined segment profile	•  SPMS-6307 - I_SUBSET_126
		 SPMS-3182 - Generated train-specific timetable and infrastructure information + (Role: _C2P_involved_links)	•  SPMS-2952 - I_CCS_1	 SPMS-2354 - Required operational traffic plan	•  SPMS-2200 - I_TrafficManagementSystem
				 SPMS-7862 - Defined segment profile	•  SPMS-6307 - I_SUBSET_126
				 SPMS-7865 - Generated journey profile	•  SPMS-6307 - I_SUBSET_126
		 SPMS-3185 - Indicated automatic driving state + (Role: _C2P_involved_links)	•  SPMS-2961 - DMI_Driver_Machine_Interface	 SPMS-2321 - Indicated automatic driving state	•  SPMS-2204 - DMI_Driver_Machine_Interface
				 SPMS-7771 - Indicated automatic driving state	•  SPMS-6296 - HMI_Driver_Machine_Interface
			•  SPMS-2961 - DMI_Driver_Machine_Interface	 SPMS-2328 - Indicated supporting information	•  SPMS-2204 - DMI_Driver_Machine_Interface






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-3187 - Indicated supporting information + (Role: _C2P_involved_links)		 SPMS-7870 - Indicated supporting information	 SPMS-6296 - HMI_Driver_Machine_Interface
		 SPMS-4560 - Supervise passenger exchange + (Role: _C2P_involved_functions)		 SPMS-2177 - Supervise passenger exchange	 SPMS-2096 - Driver
				 SPMS-7851 - Supervise passenger exchange	 SPMS-5105 - Driver
		 SPMS-4561 - Indicated supporting information + (Role: _C2P_involved_links)		 SPMS-2329 - Indicated supporting information	 SPMS-2204 - DMI_Driver_Machine_Interface
				 SPMS-7871 - Indicated supporting information	 SPMS-6296 - HMI_Driver_Machine_Interface
		 SPMS-5332 - Generate train-specific timetable information + (Role: _C2P_involved_functions)		 SPMS-2107 - Control state of train doors	 SPMS-2098 - CCS System
				 SPMS-2160 - Calculate information to support driving	 SPMS-2098 - CCS System
				 SPMS-2180 - Control automatic driving speed of one train	 SPMS-2098 - CCS System
				 SPMS-4879 - Generate journey profile for one train unit	 SPMS-5058 - Automatic Train Operation Trackside
				 SPMS-4915 - Generate segment profile for one train	 SPMS-5058 - Automatic Train Operation Trackside
		 SPMS-5333 - Required operational traffic plan + (Role: _C2P_involved_links)		 SPMS-2354 - Required operational traffic plan	 SPMS-2200 - I_TrafficManagementSystem
				 SPMS-2359 - Required operational traffic plan	 SPMS-2200 - I_TrafficManagementSystem
				 SPMS-2360 - Required operational traffic plan	 SPMS-2200 - I_TrafficManagementSystem

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5370 - Drive train automatically (Operational plan)	SF SPMS-2836 - Control relative traction and braking effort manually + (Role: _C2P_involved_functions)	• SPMS-2822 - Driver	SF SPMS-2106 - Control relative traction and braking effort manually  SF SPMS-5502 - Control relative traction and braking effort manually	• SPMS-2096 - Driver  • SPMS-5105 - Driver
		SF SPMS-2837 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	• SPMS-2820 - Rolling Stock Operation System	SF SPMS-2146 - Implement specific traction and braking effort  SF SPMS-6100 - Implement specific traction and braking effort	• SPMS-2094 - Rolling Stock Operation System  • SPMS-5108 - Rolling Stock Operation System
		SF SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	• SPMS-2813 - Traffic Management System	SF SPMS-2148 - Calculate operational traffic plan  SF SPMS-4875 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System  • SPMS-5111 - Traffic Management System
		SF SPMS-2862 - Calculate information to support driving + (Role: _C2P_involved_functions)	• SPMS-2807 - Train CS System	SF SPMS-2160 - Calculate information to support driving  SF SPMS-4895 - Indicate information to support driving  SF SPMS-7838 - Calculate information to support driving	• SPMS-2098 - CCS System  • SPMS-5073 - Multi Display System  • SPMS-5057 - Automatic Train Operation On-board
		SF SPMS-2870 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	• SPMS-2807 - Train CS System	SF SPMS-2180 - Control automatic driving speed of one train  SF SPMS-4872 - Control automatic driving speed of one train	• SPMS-2098 - CCS System  • SPMS-5057 - Automatic Train Operation On-board

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4917 - Request+Store journey profile	•  SPMS-5057 - Automatic Train Operation On-board
				 SPMS-7846 - Indicate automatic driving state	•  SPMS-5073 - Multi Display System
				 SPMS-7847 - Register automatic driving input from driver	•  SPMS-5073 - Multi Display System
		 SPMS-2907 - Authorise automatic driving state + (Role: _C2P_involved_functions)	•  SPMS-2822 - Driver	 SPMS-2134 - Authorise automatic driving state	•  SPMS-2096 - Driver
				 SPMS-7767 - Authorise automatic driving state	•  SPMS-5105 - Driver
		 SPMS-2933 - Supervise guideway of one train + (Role: _C2P_involved_functions)	•  SPMS-2822 - Driver	 SPMS-2158 - Supervise guideway of one train	•  SPMS-2096 - Driver
				 SPMS-7850 - Supervise guideway of one train	•  SPMS-5105 - Driver
		 SPMS-5332 - Generate train-specific timetable information + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2107 - Control state of train doors	•  SPMS-2098 - CCS System
				 SPMS-2160 - Calculate information to support driving	•  SPMS-2098 - CCS System
				 SPMS-2180 - Control automatic driving speed of one train	•  SPMS-2098 - CCS System
				 SPMS-4879 - Generate journey profile for one train unit	•  SPMS-5058 - Automatic Train Operation Trackside
				 SPMS-4915 - Generate segment profile for one train	•  SPMS-5058 - Automatic Train Operation Trackside

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-5740 - Drive train automatically (Operational plan - Traffic CS view)	SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	• SPMS-2813 - Traffic Management System	SPMS-2148 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System
				SPMS-4875 - Calculate operational traffic plan	• SPMS-5111 - Traffic Management System
		SPMS-2870 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	• SPMS-2807 - Train CS System	SPMS-2180 - Control automatic driving speed of one train	• SPMS-2098 - CCS System
				SPMS-4872 - Control automatic driving speed of one train	• SPMS-5057 - Automatic Train Operation On-board
				SPMS-4917 - Request+Store journey profile	• SPMS-5057 - Automatic Train Operation On-board
				SPMS-7846 - Indicate automatic driving state	• SPMS-5073 - Multi Display System
				SPMS-7847 - Register automatic driving input from driver	• SPMS-5073 - Multi Display System
		SPMS-5332 - Generate train-specific timetable information + (Role: _C2P_involved_functions)	• SPMS-2823 - Traffic CS System	SPMS-2107 - Control state of train doors	• SPMS-2098 - CCS System
				SPMS-2160 - Calculate information to support driving	• SPMS-2098 - CCS System
				SPMS-2180 - Control automatic driving speed of one train	• SPMS-2098 - CCS System
				SPMS-4879 - Generate journey profile for one train unit	• SPMS-5058 - Automatic Train Operation Trackside
				SPMS-4915 - Generate segment profile for one train	• SPMS-5058 - Automatic Train Operation Trackside







































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-5363 - Activate configuration data	 SPMS-4388 - Draft Activate configuration data (Traffic CS view)	 SPMS-2834 - Maintain configuration data + _C2P_involved_functions) (Role:	 SPMS-2819 - Transversal CCS System	 SPMS-2182 - Maintain configuration data	 SPMS-2098 - CCS System
				 SPMS-7663 - Maintain configuration data	 SPMS-6294 - Service Function Configuration System
				 SPMS-7691 - Store configuration data	 SPMS-7244 - Configuration Repository
		 SPMS-2840 - Maintain Traffic CS System configuration data + _C2P_involved_functions) (Role:	 SPMS-2823 - Traffic CS System	 SPMS-2182 - Maintain configuration data	 SPMS-2098 - CCS System
				 SPMS-4920 - Maintain European Trackside Protection System configuration data	 SPMS-5062 - European Trackside Protection System
				 SPMS-4922 - Maintain Plan Execution System configuration data	 SPMS-5060 - Plan Execution System
	 SPMS-6991 - Activate configuration data (Main)	 SPMS-2834 - Maintain configuration data + _C2P_involved_functions) (Role:	 SPMS-2819 - Transversal CCS System	 SPMS-2182 - Maintain configuration data	 SPMS-2098 - CCS System
				 SPMS-7663 - Maintain configuration data	 SPMS-6294 - Service Function Configuration System
				 SPMS-7691 - Store configuration data	 SPMS-7244 - Configuration Repository
		 SPMS-2840 - Maintain Traffic CS System configuration data + _C2P_involved_functions) (Role:	 SPMS-2823 - Traffic CS System	 SPMS-2182 - Maintain configuration data	 SPMS-2098 - CCS System
				 SPMS-4920 - Maintain European Trackside Protection System configuration data	 SPMS-5062 - European Trackside Protection System
				 SPMS-4922 - Maintain Plan Execution System configuration data	 SPMS-5060 - Plan Execution System












































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5395 - Provide+sign configuration data + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-5390 - Data Preparation</li> </ul>	 SPMS-2128 - Provide+sign configuration data	<ul style="list-style-type: none"> <li> SPMS-2088 - Data Preparation</li> </ul>
				 SPMS-7077 - Provide+sign infrastructure data	<ul style="list-style-type: none"> <li> SPMS-7069 - Data Preparation</li> </ul>
		 SPMS-5399 - Provide planned activation time + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2131 - Provide planned activation time for infrastructure	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
				 SPMS-7076 - Provide planned activation time	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>
		 SPMS-5400 - Prepare+Supervise distribution of the configuration data + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-5389 - Configuration Manager</li> </ul>	 SPMS-2129 - Prepare+Supervise distribution of the configuration data	<ul style="list-style-type: none"> <li> SPMS-2103 - Configuration Manager</li> </ul>
				 SPMS-7072 - Prepare+Supervise distribution of the configuration data	<ul style="list-style-type: none"> <li> SPMS-7070 - Configuration Manager</li> </ul>
		 SPMS-6534 - Maintain Trackside Assets CS System configuration data + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-2818 - Trackside Assets CS System</li> </ul>	 SPMS-2182 - Maintain configuration data	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
				 SPMS-6241 - Check+Sign configuration data	<ul style="list-style-type: none"> <li> SPMS-6240 - Integrator</li> </ul>
		 SPMS-6883 - Check+Sign configuration data + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-6882 - Integrator</li> </ul>	 SPMS-7074 - Check+Sign configuration data	<ul style="list-style-type: none"> <li> SPMS-7068 - Integrator</li> </ul>
				 SPMS-6518 - Provide configuration data	<ul style="list-style-type: none"> <li> SPMS-6240 - Integrator</li> </ul>
		 SPMS-6885 - Provide configuration data + _C2P_involved_functions) (Role:	<ul style="list-style-type: none"> <li> SPMS-6882 - Integrator</li> </ul>	 SPMS-7075 - Provide configuration data	<ul style="list-style-type: none"> <li> SPMS-7068 - Integrator</li> </ul>
			<ul style="list-style-type: none"> <li> SPMS-2819 - Transversal CCS System</li> </ul>	 SPMS-2182 - Maintain configuration data	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>











































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-7210 - Activate configuration data (Vehicle Data)	SPMS-2834 - Maintain configuration data + (Role: _C2P_involved_functions)		SPMS-7663 - Maintain configuration data	• SPMS-6294 - Service Function Configuration System
				SPMS-7691 - Store configuration data	• SPMS-7244 - Configuration Repository
		SPMS-5395 - Provide+sign configuration data + (Role: _C2P_involved_functions)	• SPMS-5390 - Data Preparation	SPMS-2128 - Provide+sign configuration data	• SPMS-2088 - Data Preparation
				SPMS-7077 - Provide+sign infrastructure data	• SPMS-7069 - Data Preparation
		SPMS-5400 - Prepare+Supervise distribution of the configuration data + (Role: _C2P_involved_functions)	• SPMS-5389 - Configuration Manager	SPMS-2129 - Prepare+Supervise distribution of the configuration data	• SPMS-2103 - Configuration Manager
				SPMS-7072 - Prepare+Supervise distribution of the configuration data	• SPMS-7070 - Configuration Manager
		SPMS-6883 - Check+Sign configuration data + (Role: _C2P_involved_functions)	• SPMS-6882 - Integrator	SPMS-6241 - Check+Sign configuration data	• SPMS-6240 - Integrator
				SPMS-7074 - Check+Sign configuration data	• SPMS-7068 - Integrator
		SPMS-6885 - Provide configuration data + (Role: _C2P_involved_functions)	• SPMS-6882 - Integrator	SPMS-6518 - Provide configuration data	• SPMS-6240 - Integrator
				SPMS-7075 - Provide configuration data	• SPMS-7068 - Integrator
		SPMS-6886 - Provide planned activation time for vehicle + (Role: _C2P_involved_functions)	• SPMS-5392 - Railway Undertaking IT-System	SPMS-6570 - Provide planned activation time for vehicle	• SPMS-5084 - Railway Undertaking IT-System
					• SPMS-7071 - Railway Undertaking IT-System





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				SPMS-7078 - Provide planned activation time for vehicle	
		SPMS-7248 - Maintain Train CS System configuration data + (Role: _C2P_involved_functions)	• SPMS-2807 - Train CS System	SPMS-2182 - Maintain configuration data	• SPMS-2098 - CCS System
SPMS-5814 - Placeholder SA for created scenarios in the past	SPMS-4322 - Paused Set point position (Timeout moving right to left)	SPMS-2108 - Sense+Observe point status + (Role: _C2P_involved_functions)	• SPMS-2098 - CCS System	SPMS-2886 - Observe point status	• SPMS-2823 - Traffic CS System
				SPMS-2914 - Sense+Observe position of one point	• SPMS-2818 - Trackside Assets CS System
		SPMS-2125 - Exert force on point rails + (Role: _C2P_involved_functions)	• SPMS-2100 - Point Machine	SPMS-2932 - Exert force on point rails	• SPMS-2812 - Point Machine
		SPMS-2132 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	• SPMS-2100 - Point Machine	SPMS-2942 - Has physical behaviour moves+lies+is locked	• SPMS-2812 - Point Machine
		SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	• SPMS-2097 - Traffic Management System	SPMS-2843 - Calculate operational traffic plan	• SPMS-2813 - Traffic Management System
		SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	• SPMS-2090 - Signaller	SPMS-2853 - Supervise state of the railway	• SPMS-2827 - Signaller
		SPMS-2190 - Control position of one point + (Role: _C2P_involved_functions)	• SPMS-2098 - CCS System	SPMS-2851 - Determine required position of one point machine	• SPMS-2818 - Trackside Assets CS System
				SPMS-5265 - Control target state of one point	• SPMS-2823 - Traffic CS System
	SPMS-4327 - Paused Activate usage restriction (Point failure)	SPMS-2108 - Sense+Observe point status + (Role: _C2P_involved_functions)	• SPMS-2098 - CCS System	SPMS-2886 - Observe point status	• SPMS-2823 - Traffic CS System
					• SPMS-2818 - Trackside Assets CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2914 - Sense+Observe position of one point	
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2097 - Traffic Management System           </li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2813 - Traffic Management System           </li> </ul>
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2098 - CCS System           </li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li>  SPMS-2823 - Traffic CS System           </li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2090 - Signaller           </li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>  SPMS-2827 - Signaller           </li> </ul>
	 SPMS-4330 - Paused Deactivate level crossing (failure detected)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2097 - Traffic Management System           </li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>  SPMS-2813 - Traffic Management System           </li> </ul>
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2092 - Level Crossing Protection Facility           </li> </ul>	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li>  SPMS-2817 - Level Crossing Protection Facility           </li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2090 - Signaller           </li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>  SPMS-2827 - Signaller           </li> </ul>
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-4338 - Paused Deactivate usage restriction (Point failure recovered)	 SPMS-2108 - Sense+Observe point status + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>  SPMS-2098 - CCS System           </li> </ul>	 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li>  SPMS-2823 - Traffic CS System           </li> </ul>
			<ul style="list-style-type: none"> <li>  SPMS-2097 - Traffic Management System           </li> </ul>	 SPMS-2914 - Sense+Observe position of one point	<ul style="list-style-type: none"> <li>  SPMS-2818 - Trackside Assets CS System           </li> </ul>
					<ul style="list-style-type: none"> <li>  SPMS-2813 - Traffic Management System           </li> </ul>




























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)		 SPMS-2843 - Calculate operational traffic plan	
		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2929 - Control usage restrictions	 SPMS-2823 - Traffic CS System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
	 SPMS-4340 - Paused Deactivate level crossing (Time value overrun detected)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
	 SPMS-4349 - Paused Activate level crossing (failure detected)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-2092 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2191 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2909 - Paused Observe level crossing protection status	
				 SPMS-5266 - Paused Observe level crossing status	
	 SPMS-5754 - Paused Deactivate usage restriction (Unplanned usage restriction)	 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
			 SPMS-2098 - CCS System	 SPMS-2929 - Control usage restrictions	 SPMS-2823 - Traffic CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-5817 - Placeholder LA draft scenarios		 SPMS-2159 - Control usage restriction areas + (Role: _C2P_involved_functions)			
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
	 SPMS-4370 - Set point position (Timeout moving Left to right)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2851 - Determine required position of one point machine + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4885 - Determine required position of one point machine	 SPMS-5068 - Subsystem - Point
		 SPMS-2914 - Sense+Observe position of one point + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4900 - Sense+Observe point position	 SPMS-5068 - Subsystem - Point
		 SPMS-2932 - Exert force on point rails + (Role: _C2P_involved_functions)	 SPMS-2812 - Point Machine	 SPMS-2125 - Exert force on point rails	 SPMS-2100 - Point Machine
				 SPMS-4889 - Exert force on point rails	 SPMS-5107 - Point Machine
		 SPMS-2942 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	 SPMS-2812 - Point Machine	 SPMS-2132 - Has physical behaviour moves+lies+is locked	 SPMS-2100 - Point Machine
				 SPMS-4891 - Has physical behaviour moves+lies+is locked	 SPMS-5107 - Point Machine

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5265 - Control target state of one point + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4877 - Control execution of switchable trackside asset request	 SPMS-5060 - Plan Execution System
				 SPMS-4903 - Authorise target position of point	 SPMS-5062 - European Trackside Protection System
	 SPMS-4377 - Set point position (Left to right, multiple point machines)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2851 - Determine required position of one point machine + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2190 - Control position of one point	 SPMS-2098 - CCS System
				 SPMS-4885 - Determine required position of one point machine	 SPMS-5068 - Subsystem - Point
		 SPMS-2886 - Observe point status + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4888 - Observe point status	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2914 - Sense+Observe position of one point + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2108 - Sense+Observe point status	 SPMS-2098 - CCS System
				 SPMS-4900 - Sense+Observe point position	 SPMS-5068 - Subsystem - Point

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2932 - Exert force on point rails + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>	 SPMS-2125 - Exert force on point rails	<ul style="list-style-type: none"> <li> SPMS-2100 - Point Machine</li> </ul>
		 SPMS-4889 - Exert force on point rails		 SPMS-2100 - Point Machine	<ul style="list-style-type: none"> <li> SPMS-5107 - Point Machine</li> </ul>
		 SPMS-2942 - Has physical behaviour moves+lies+is locked + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2812 - Point Machine</li> </ul>	 SPMS-2132 - Has physical behaviour moves+lies+is locked	<ul style="list-style-type: none"> <li> SPMS-2100 - Point Machine</li> </ul>
		 SPMS-4891 - Has physical behaviour moves+lies+is locked		 SPMS-5107 - Point Machine	
		 SPMS-5265 - Control target state of one point + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2190 - Control position of one point	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>
		 SPMS-4877 - Control execution of switchable trackside asset request		 SPMS-5060 - Plan Execution System	
		 SPMS-4903 - Authorise target position of point		 SPMS-5062 - European Trackside Protection System	
	 SPMS-4378 - Deactivate level crossing (Time value overrun detected)	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>	 SPMS-2148 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan		 SPMS-5111 - Traffic Management System	
		 SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>	 SPMS-2167 - Supervise state of railway operation	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>
		 SPMS-4908 - Supervise state of the railway		 SPMS-5110 - Signaller	
		 SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	









































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing
		 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state + _C2P_involved_functions) (Role:	 SPMS-2817 - Level Crossing Protection Facility	 SPMS-2153 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2092 - Level Crossing Protection Facility
				 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-5106 - Level Crossing Protection Facility
		 SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-2191 - Paused Observe level crossing protection status	
	 SPMS-5647 - Deactivate level crossing (Failure detected - Traffic control and supervision view)	 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	 SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	 SPMS-2090 - Signaller
				 SPMS-4908 - Supervise state of the railway	 SPMS-5110 - Signaller
		 SPMS-2909 - Paused Observe level crossing protection status + _C2P_involved_functions) (Role:		 SPMS-2191 - Paused Observe level crossing protection status	
				 SPMS-4899 - Paused Observe level crossing protection facility state	 SPMS-5066 - Subsystem - Level Crossing














































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		SF SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		SF SPMS-2191 - Paused Observe level crossing protection status	
				SF SPMS-4887 - Paused Observe level crossing status	
	H SPMS-5648 - Deactivate level crossing (Time value overrun detected - Traffic control and supervision view)	SF SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	• SPMS-2813 - Traffic Management System	SF SPMS-2148 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System
				SF SPMS-4875 - Calculate operational traffic plan	• SPMS-5111 - Traffic Management System
		SF SPMS-2853 - Supervise state of the railway + (Role: _C2P_involved_functions)	• SPMS-2827 - Signaller	SF SPMS-2167 - Supervise state of railway operation	• SPMS-2090 - Signaller
				SF SPMS-4908 - Supervise state of the railway	• SPMS-5110 - Signaller
		SF SPMS-2909 - Paused Observe level crossing protection status + (Role: _C2P_involved_functions)		SF SPMS-2191 - Paused Observe level crossing protection status	
				SF SPMS-4899 - Paused Observe level crossing protection facility state	• SPMS-5066 - Subsystem - Level Crossing
		SF SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		SF SPMS-2191 - Paused Observe level crossing protection status	
				SF SPMS-4887 - Paused Observe level crossing status	
	H SPMS-5650 - Activate level crossing (failure detected - Traffic control and supervision view)	SF SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	• SPMS-2813 - Traffic Management System	SF SPMS-2148 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System
					• SPMS-5111 - Traffic Management System






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				SPMS-4875 - Calculate operational traffic plan	
		SPMS-2909 - Paused Observe level crossing protection status + _C2P_involved_functions (Role:		SPMS-2191 - Paused Observe level crossing protection status	
				SPMS-4899 - Paused Observe level crossing protection facility state	• SPMS-5066 - Subsystem - Level Crossing
		SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		SPMS-2191 - Paused Observe level crossing protection status	
				SPMS-4887 - Paused Observe level crossing status	
	SPMS-5884 - Draft Perform train movement (Level crossing activated before movement permission granted)	SPMS-2836 - Control relative traction and braking effort manually + _C2P_involved_functions (Role:	• SPMS-2822 - Driver	SPMS-2106 - Control relative traction and braking effort manually	• SPMS-2096 - Driver
				SPMS-5502 - Control relative traction and braking effort manually	• SPMS-5105 - Driver
		SPMS-4559 - Implement specific doors state + _C2P_involved_functions (Role:	• SPMS-2820 - Rolling Stock Operation System	SPMS-2114 - Implement specific doors state	• SPMS-2094 - Rolling Stock Operation System
				SPMS-7845 - Implement specific doors state	• SPMS-5108 - Rolling Stock Operation System
		SPMS-5266 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		SPMS-2191 - Paused Observe level crossing protection status	
				SPMS-4887 - Paused Observe level crossing status	
	SPMS-5910 - Draft Perform train movement (Level crossing activated	SPMS-2836 - Control relative traction and braking effort manually	• SPMS-2822 - Driver	SPMS-2106 - Control relative traction and braking effort manually	• SPMS-2096 - Driver

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	after movement permission granted)	+ _C2P_involved_functions) (Role:		 SPMS-5502 - Control relative traction and braking effort manually	•  SPMS-5105 - Driver
		 SPMS-4559 - Implement specific doors state + _C2P_involved_functions) (Role:	•  SPMS-2820 - Rolling Stock Operation System	 SPMS-2114 - Implement specific doors state	•  SPMS-2094 - Rolling Stock Operation System
				 SPMS-7845 - Implement specific doors state	•  SPMS-5108 - Rolling Stock Operation System
 SPMS-5836 - Deactivate usage restriction	 SPMS-5840 - Deactivate usage restriction	 SPMS-4875 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-4908 - Supervise state of the railway + _C2P_involved_functions) (Role:	•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-5355 - Report operating state + _C2P_involved_functions) (Role:	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-5723 - Control usage restriction area request + (Role: _C2P_involved_functions)	•  SPMS-5060 - Plan Execution System	 SPMS-2929 - Control usage restrictions	•  SPMS-2823 - Traffic CS System
		 SPMS-5724 - Authorise usage restriction areas + _C2P_involved_functions) (Role:	•  SPMS-5062 - European Trackside Protection System	 SPMS-2929 - Control usage restrictions	•  SPMS-2823 - Traffic CS System
		 SPMS-5726 - Indicate usage restriction + _C2P_involved_functions) (Role:	•  SPMS-6984 - Signaller Control Panel		
		 SPMS-6344 - Authorised usage restriction + _C2P_involved_links) (Role:	•  SPMS-6308 - SCI_CMD		






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6346 - <a href="#">Authorised usage restriction</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6308 - <a href="#">SCI_CMD</a></li> </ul>		
		 SPMS-6416 - <a href="#">Reported operating state</a> + (Role: _C2P_involved_links)		 SPMS-3052 - <a href="#">Allocated track path</a>	<ul style="list-style-type: none"> <li> SPMS-2958 - <a href="#">I_TrafficManagementSystem_01</a></li> </ul>
		 SPMS-6424 - <a href="#">Requested usage restriction</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6308 - <a href="#">SCI_CMD</a></li> </ul>		
		 SPMS-6426 - <a href="#">Requested usage restriction</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6985 - <a href="#">I_Signaller</a></li> </ul>		
		 SPMS-6591 - <a href="#">Register usage restriction command</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - <a href="#">Signaller Control Panel</a></li> </ul>		
		 SPMS-6593 - <a href="#">Indicated usage restriction</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - <a href="#">HMI_Signaller</a></li> </ul>		
		 SPMS-6594 - <a href="#">Register Input</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - <a href="#">HMI_Signaller</a></li> </ul>		
	 SPMS-5852 - <a href="#">Deactivate usage restriction (Planned usage restriction)</a>	 SPMS-4875 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - <a href="#">Traffic Management System</a></li> </ul>	 SPMS-2843 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"> <li> SPMS-2813 - <a href="#">Traffic Management System</a></li> </ul>
		 SPMS-4908 - <a href="#">Supervise state of the railway</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - <a href="#">Signaller</a></li> </ul>	 SPMS-2853 - <a href="#">Supervise state of the railway</a>	<ul style="list-style-type: none"> <li> SPMS-2827 - <a href="#">Signaller</a></li> </ul>
		 SPMS-5355 - <a href="#">Report operating state</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - <a href="#">Plan Execution System</a></li> </ul>	 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2886 - <a href="#">Observe point status</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2944 - <a href="#">Aggregate movable objects information</a>	<ul style="list-style-type: none"> <li> SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5723 - Control usage restriction area request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-5724 - Authorise usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-5726 - Indicate usage restriction + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-6591 - Register usage restriction command + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - Signaller Control Panel</li> </ul>		
	 SPMS-7909 - Deactivate usage restriction (Unplanned TSR)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-5724 - Authorise usage restriction areas + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2929 - Control usage restrictions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-5726 - Indicate usage restriction + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-6591 - Register usage restriction command + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - Signaller Control Panel</li> </ul>		































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-5970 - Grant movement permission	 SPMS-4868 - Grant movement permission	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-4873 - Calculate safe speed profiles + (Role: _C2P_involved_functions)	 SPMS-5063 - European Train Control System On-board	 SPMS-2872 - Calculate safe speed profiles of one train	 SPMS-2807 - Train CS System
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	 SPMS-6984 - Signaller Control Panel		
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-6332 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-6985 - I_Signaller		





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6334 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6308 - SCI_CMD</li> </ul>		
		 SPMS-6393 - Authorised movement permission + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6306 - I_SUBSET_026</li> </ul>	 SPMS-3065 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2952 - I_CCS_1</li> </ul>
		 SPMS-6396 - Indicated track section state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - HMI_Signaller</li> </ul>	 SPMS-3044 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>
		 SPMS-6416 - Reported operating state + (Role: _C2P_involved_links)		 SPMS-3052 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
		 SPMS-6421 - Requested movement permission + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6308 - SCI_CMD</li> </ul>		
		 SPMS-7953 - Authorised movement permission + (Role: _C2P_involved_links)			
	 SPMS-5014 - Grant movement permission	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4873 - Calculate safe speed profiles + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>	 SPMS-2872 - Calculate safe speed profiles of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>









































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	•  SPMS-6984 - Signaller Control Panel		
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-5971 - Perform operational plan movement	 SPMS-5972 - Perform operational plan movement		
 SPMS-5977 - Perform operational plan movement					
 SPMS-5996 - Release movement permission	 SPMS-5886 - Release movement permission	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	•  SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	•  SPMS-2827 - Signaller
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	•  SPMS-6984 - Signaller Control Panel		



































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5355 - Report operating state + _C2P_involved_functions) (Role:	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	•  SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-6326 - Aggregated track occupancy and train status information + _C2P_involved_links) (Role:			
		 SPMS-6332 - Aggregated track occupancy and train status information + _C2P_involved_links) (Role:	•  SPMS-6985 - I_Signaller		
		 SPMS-6334 - Aggregated track occupancy and train status information + _C2P_involved_links) (Role:	•  SPMS-6308 - SCI_CMD		
		 SPMS-6396 - Indicated track section state + _C2P_involved_links) (Role:	•  SPMS-6305 - HMI_Signaller	 SPMS-3044 - Allocated track path	•  SPMS-2963 - HMI_Signaller_01
		 SPMS-6416 - Reported operating state + _C2P_involved_links) (Role:		 SPMS-3052 - Allocated track path	•  SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-7953 - Authorised movement permission + _C2P_involved_links) (Role:			
	 SPMS-5893 - Release movement permission	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-4875 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System




























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
 SPMS-6029 - Drive train automatically	 SPMS-6068 - Drive train automatically	 SPMS-4872 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5057 - Automatic Train Operation On-board</li> </ul>	 SPMS-2870 - Control automatic driving speed of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4879 - Generate journey profile for one train unit + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5058 - Automatic Train Operation Trackside</li> </ul>	 SPMS-5332 - Generate train-specific timetable information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4881 - Determine automatic train operation states + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5058 - Automatic Train Operation Trackside</li> </ul>		
		 SPMS-4909 - Determine status of automatic train operation onboard + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5057 - Automatic Train Operation On-board</li> </ul>		

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4914 - Request+Store segment profile on-board + (Role: _C2P_involved_functions)	•  SPMS-5057 - Automatic Train Operation On-board		
		 SPMS-4915 - Generate segment profile for one train + (Role: _C2P_involved_functions)	•  SPMS-5058 - Automatic Train Operation Trackside	 SPMS-5332 - Generate train-specific timetable information	•  SPMS-2823 - Traffic CS System
		 SPMS-4917 - Request+Store journey profile + (Role: _C2P_involved_functions)	•  SPMS-5057 - Automatic Train Operation On-board	 SPMS-2870 - Control automatic driving speed of one train	•  SPMS-2807 - Train CS System
		 SPMS-6348 - Calculated operational traffic plan + (Role: _C2P_involved_links)	•  SPMS-6304 - SCI_OP_02		
		 SPMS-6359 - Defined segment profile + (Role: _C2P_involved_links)	•  SPMS-6307 - I_SUBSET_126		
		 SPMS-6392 - Generated journey profile + (Role: _C2P_involved_links)	•  SPMS-6307 - I_SUBSET_126	 SPMS-3067 - Generated train-specific timetable information	•  SPMS-2952 - I_CCS_1
		 SPMS-6402 - Provided ATO status report + (Role: _C2P_involved_links)	•  SPMS-6307 - I_SUBSET_126		
		 SPMS-6419 - Requested journey profile + (Role: _C2P_involved_links)	•  SPMS-6307 - I_SUBSET_126		
		 SPMS-6423 - Requested segment profile + (Role: _C2P_involved_links)	•  SPMS-6307 - I_SUBSET_126		
	 SPMS-6080 - Drive train automatically (Operational plan)	 SPMS-4872 - Control automatic driving speed of one train + (Role: _C2P_involved_functions)	•  SPMS-5057 - Automatic Train Operation On-board	 SPMS-2870 - Control automatic driving speed of one train	•  SPMS-2807 - Train CS System
		 SPMS-4879 - Generate journey profile for one train unit + (Role: _C2P_involved_functions)	•  SPMS-5058 - Automatic Train Operation Trackside	 SPMS-5332 - Generate train-specific timetable information	•  SPMS-2823 - Traffic CS System
		 SPMS-4881 - Determine automatic train operation states			

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ (Role: _C2P_involved_functions)	•  SPMS-5058 - Automatic Train Operation Trackside		
		 SPMS-4914 - Request+Store segment profile on-board + (Role: _C2P_involved_functions)	•  SPMS-5057 - Automatic Train Operation On-board		
		 SPMS-4915 - Generate segment profile for one train + (Role: _C2P_involved_functions)	•  SPMS-5058 - Automatic Train Operation Trackside	 SPMS-5332 - Generate train-specific timetable information	•  SPMS-2823 - Traffic CS System
		 SPMS-4917 - Request+Store journey profile + (Role: _C2P_involved_functions)	•  SPMS-5057 - Automatic Train Operation On-board	 SPMS-2870 - Control automatic driving speed of one train	•  SPMS-2807 - Train CS System
 SPMS-6053 - Paused Deactivate level crossing	 SPMS-6054 - Deactivate level crossing	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	•  SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	•  SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	•  SPMS-5106 - Level Crossing Protection Facility	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	•  SPMS-2817 - Level Crossing Protection Facility
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	•  SPMS-5066 - Subsystem - Level Crossing	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5066 - Subsystem - Level Crossing	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5106 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	 SPMS-6984 - Signaller Control Panel		
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-6355 - Paused Commanded level crossing state + (Role: _C2P_involved_links)			


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6383 - Paused Observed level crossing protection facility state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6297 - I_LevelCrossingProtectionFacility</li> </ul>	 SPMS-3159 - Paused Observed level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2966 - I_LevelCrossingProtectionFacility  (If part of release interface needs to be connected again with TACS)</li> </ul>
		 SPMS-6388 - Paused Observed protection state + (Role: _C2P_involved_links)			
		 SPMS-6404 - Observed level crossing status + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6985 - I_Signaller</li> </ul>		
		 SPMS-6416 - Reported operating state + (Role: _C2P_involved_links)		 SPMS-3052 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2958 - I_TrafficManagementSystem_01</li> </ul>
		 SPMS-6418 - Requested input for trackside assets + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - HMI_Signaller</li> </ul>		
		 SPMS-6428 - Paused Required protection facility state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6297 - I_LevelCrossingProtectionFacility</li> </ul>	 SPMS-3010 - Paused Required protection facility state	<ul style="list-style-type: none"> <li> SPMS-2966 - I_LevelCrossingProtectionFacility  (If part of release interface needs to be connected again with TACS)</li> </ul>
	 SPMS-6137 - Deactivate level crossing (Train passed level crossing)	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2842 - Paused Control+Actuate specific	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>







































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		level crossing protection facility state	
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	 SPMS-5066 - Subsystem - Level Crossing	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5066 - Subsystem - Level Crossing	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	 SPMS-5106 - Level Crossing Protection Facility	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	 SPMS-2817 - Level Crossing Protection Facility
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System




































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	SPMS-6138 - Deactivate level crossing (Signaller request)	 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4878 - Control execution of movement permission request + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4884 - Paused Control+Actuate specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2842 - Paused Control+Actuate specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>
		 SPMS-4886 - Paused Determine required protection state of one level crossing protection facility + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>	 SPMS-2856 - Paused Determine required protection state of one level crossing protection facility	
		 SPMS-4887 - Paused Observe level crossing status + (Role: _C2P_involved_functions)		 SPMS-5266 - Paused Observe level crossing status	
		 SPMS-4899 - Paused Observe level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5066 - Subsystem - Level Crossing</li> </ul>	 SPMS-2909 - Paused Observe level crossing protection status	
		 SPMS-4904 - Paused Authorise target state of level crossing + (Role: _C2P_involved_functions)		 SPMS-5267 - Paused Control target state level crossing protection	
		 SPMS-4907 - Paused Sense+Observe specific level crossing protection facility state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5106 - Level Crossing Protection Facility</li> </ul>	 SPMS-2917 - Paused Sense+Observe specific level crossing protection facility state	<ul style="list-style-type: none"> <li> SPMS-2817 - Level Crossing Protection Facility</li> </ul>
			<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>		<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)		 SPMS-2853 - Supervise state of the railway	
		 SPMS-4911 - Register trackside asset input request + (Role: _C2P_involved_functions)	 SPMS-6984 - Signaller Control Panel		
		 SPMS-4912 - Paused Indicate level crossing status + (Role: _C2P_involved_functions)			
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
 SPMS-6095 - Localise train on railway infrastructure	 SPMS-6097 - Localise train on railway infrastructure				
	 SPMS-6098 - Localise train on railway infrastructure (Detect track vacancy proving section occupation)	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-4892 - Has wheel position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	 SPMS-5112 - Wheel	 SPMS-2833 - Has wheel position and direction in relation to track coordinates	 SPMS-2829 - Wheel
		 SPMS-4901 - Sense+Observe track vacancy proving section state + (Role: _C2P_involved_functions)	 SPMS-5070 - Subsystem - Train Detection System	 SPMS-2919 - Sense+Observe track vacancy proving section state	 SPMS-2818 - Trackside Assets CS System
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
			 SPMS-6984 - Signaller Control Panel		



































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)			
		 SPMS-6325 - Actual wheel passing + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6303 - I_Wheel</li> </ul>	 SPMS-3015 - Actual wheel passing	<ul style="list-style-type: none"> <li> SPMS-2968 - I_Wheel</li> </ul>
		 SPMS-6332 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6985 - I_Signaller</li> </ul>		
		 SPMS-6396 - Indicated track section state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6305 - HMI_Signaller</li> </ul>	 SPMS-3044 - Allocated track path	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>
		 SPMS-6398 - Observed track vacancy proving section state + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-6311 - SCI_TDS</li> </ul>	 SPMS-4648 - Observed track vacancy proving section state	<ul style="list-style-type: none"> <li> SPMS-2953 - I_CCS_2</li> </ul>
	 SPMS-6099 - Localise train on railway infrastructure (Determine localisation information for one train)	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4874 - Determine state and position of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>	 SPMS-2878 - Determine position and state of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-4910 - Indicate track section state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>

































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-6150 - Has position in relation to geographical coordinates + (Role: _C2P_involved_functions)	 SPMS-5109 - Rolling Stock Reference Point	 SPMS-2945 - Has position in relation to geographical coordinates	 SPMS-2809 - Rolling Stock Reference Point
		 SPMS-6152 - Has acceleration vector in relation to rolling stock coordinates + (Role: _C2P_involved_functions)	 SPMS-5109 - Rolling Stock Reference Point	 SPMS-2937 - Has acceleration vector in relation to rolling stock coordinates	 SPMS-2809 - Rolling Stock Reference Point
		 SPMS-6154 - Has position and direction in relation to track coordinates + (Role: _C2P_involved_functions)	 SPMS-5109 - Rolling Stock Reference Point	 SPMS-2949 - Has position and direction in relation to track coordinates	 SPMS-2809 - Rolling Stock Reference Point
		 SPMS-6155 - Has velocity in relation to track coordinates + (Role: _C2P_involved_functions)	 SPMS-5109 - Rolling Stock Reference Point	 SPMS-2951 - Has velocity in relation to track coordinates	 SPMS-2809 - Rolling Stock Reference Point
		 SPMS-6332 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-6985 - I_Signaller		
		 SPMS-6334 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-6308 - SCI_CMD		
		 SPMS-6396 - Indicated track section state + (Role: _C2P_involved_links)	 SPMS-6305 - HMI_Signaller	 SPMS-3044 - Allocated track path	 SPMS-2963 - HMI_Signaller_01
		 SPMS-6412 - Observed state and position of one train + (Role: _C2P_involved_links)	 SPMS-6306 - I_SUBSET_026		
				 SPMS-3052 - Allocated track path	 SPMS-2958 - I_TrafficManagementSystem_01

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6416 - Reported operating state + (Role: _C2P_involved_links)			
	 SPMS-6139 - Localise train on railway infrastructure				
 SPMS-6248 - Meeting					
 SPMS-6535 - Perform system asset diagnosis	 SPMS-4373 - Perform system asset diagnosis (Traffic CS view)	 SPMS-2895 - Monitor+Store Traffic CS System asset state + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2121 - Monitor+Evaluate system asset state	•  SPMS-2098 - CCS System
				 SPMS-7011 - Monitor+Store European Trackside Protection System asset state	•  SPMS-5062 - European Trackside Protection System
	 SPMS-6563 - Perform system asset diagnosis	 SPMS-2895 - Monitor+Store Traffic CS System asset state + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2121 - Monitor+Evaluate system asset state	•  SPMS-2098 - CCS System
				 SPMS-7011 - Monitor+Store European Trackside Protection System asset state	•  SPMS-5062 - European Trackside Protection System
		 SPMS-3062 - Monitoring and diagnostic data + (Role: _C2P_involved_links)	•  SPMS-2973 - I_CCS_3	 SPMS-7023 - Monitoring and diagnostic data	•  SPMS-6705 - SDI_ETPS
		 SPMS-4502 - Monitor+Evaluate system asset state + (Role: _C2P_involved_functions)	•  SPMS-2819 - Transversal CCS System	 SPMS-2121 - Monitor+Evaluate system asset state	•  SPMS-2098 - CCS System
				 SPMS-7009 - Monitor+Evaluate system asset state	•  SPMS-6295 - Service Function Diagnostics System
		 SPMS-4503 - Plan maintenance tasks+Manage asset + (Role: _C2P_involved_functions)	•  SPMS-6528 - Asset Management System	 SPMS-2111 - Plan maintenance tasks+Manage asset	•  SPMS-6204 - Asset Management System
					•  SPMS-6997 - Asset Management System






































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				SPMS-7007 - Plan maintenance tasks+Manage asset	
		SPMS-4506 - Provided current time + _C2P_involved_links) (Role:	• SPMS-6270 - I_TimeReference	SPMS-2264 - Provided current time	• SPMS-6266 - I_TimeReference
				SPMS-7026 - Provided current time	
		SPMS-4507 - Evaluated system asset state + _C2P_involved_links) (Role:	• SPMS-6564 - I_AssetManagementSystem	SPMS-2296 - Evaluated system asset state	• SPMS-6229 - I_AssetManagementSystem
				SPMS-7013 - Evaluated system asset state	• SPMS-7027 - I_AssetManagementSystem
		SPMS-6269 - Provide current time + _C2P_involved_functions) (Role:	• SPMS-6268 - Time Reference	SPMS-2171 - Provide current time	• SPMS-6265 - Time Reference
				SPMS-7001 - Provide current time	• SPMS-6996 - Time Reference
		SPMS-6529 - Analyse Infrastructure Manager system asset state + _C2P_involved_functions) (Role:	• SPMS-6526 - Infrastructure Management Diagnostic System	SPMS-6206 - Analyse Infrastructure Manager system asset state	• SPMS-6202 - Infrastructure Management Diagnostic System
				SPMS-7004 - Analyse Infrastructure Manager system asset state	• SPMS-6999 - Infrastructure Management Diagnostic System
		SPMS-6530 - Analyse Railway Undertaking system asset state + _C2P_involved_functions) (Role:	• SPMS-6527 - Railway Undertaking Diagnostic System	SPMS-6207 - Analyse Railway Undertaking system asset state	• SPMS-6203 - Railway Undertaking Diagnostic System
				SPMS-7005 - Analyse Railway Undertaking system asset state	• SPMS-6998 - Railway Undertaking Diagnostic System
		SPMS-6532 - Monitor system asset state information + (Role: _C2P_involved_functions)	• SPMS-2827 - Signaller	SPMS-6482 - Monitor system asset state information	• SPMS-2090 - Signaller
					• SPMS-5110 - Signaller

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7003 - Monitor system asset state information	
		 SPMS-6533 - Monitor+Store Trackside Assets CS System asset state + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2121 - Monitor+Evaluate system asset state	 SPMS-2098 - CCS System
				 SPMS-7010 - Monitor+Store Point system asset state	 SPMS-5068 - Subsystem - Point
		 SPMS-6555 - Logistic data + (Role: _C2P_involved_links)	 SPMS-6564 - I_AssetManagementSystem	 SPMS-6242 - Logistic data	 SPMS-6229 - I_AssetManagementSystem
				 SPMS-7017 - Logistic data	 SPMS-7027 - I_AssetManagementSystem
		 SPMS-6556 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-6580 - HMI_Signaller_02	 SPMS-4496 - Evaluated system asset state	 SPMS-2198 - HMI_Signaller
				 SPMS-7015 - Evaluated system asset state	 SPMS-7196 - HMI_Signaller
		 SPMS-6558 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-6565 - I_InfrastructureManagementDiagnosticSystem	 SPMS-6209 - Evaluated system asset state	 SPMS-6230 - I_InfrastructureManagementDiagnosticSystem
				 SPMS-7019 - Evaluated system asset state	 SPMS-7030 - I_InfrastructureManagementDiagnosticSystem
		 SPMS-6559 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-6566 - I_RailwayUndertakingDiagnosticSystem	 SPMS-6210 - Evaluated system asset state	 SPMS-6231 - I_RailwayUndertakingDiagnosticSystem
				 SPMS-7021 - Evaluated system asset state	 SPMS-7029 - I_RailwayUndertakingDiagnosticSystem
		 SPMS-6560 - Evaluated system asset state + (Role: _C2P_involved_links)	 SPMS-7320 - HMI_FieldForce_02	 SPMS-6232 - Evaluated system asset state	 SPMS-2199 - HMI_FieldForce










































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7022 - Evaluated system asset state	
				 SPMS-7750 - Evaluated system asset state	•  SPMS-7334 - HMI_FieldForce
		 SPMS-6561 - Monitoring and diagnostic data + (Role: _C2P_involved_links)	•  SPMS-2972 - I_CCS_4	 SPMS-7024 - Monitoring and diagnostic data	•  SPMS-6312 - SDI_P
				 SPMS-7085 - Monitoring and diagnostic data	
		 SPMS-6884 - Monitor+Store Train CS System asset state + (Role: _C2P_involved_functions)	•  SPMS-2807 - Train CS System	 SPMS-2121 - Monitor+Evaluate system asset state	•  SPMS-2098 - CCS System
				 SPMS-7012 - Monitor+Store ETCS-OB system asset state	•  SPMS-5063 - European Train Control System On-board
		 SPMS-6909 - Monitoring and diagnostic data + (Role: _C2P_involved_links)	•  SPMS-6913 - I_CCS_5	 SPMS-7020 - Monitoring and diagnostic data	
		 SPMS-7319 - Carry out maintenance tasks + (Role: _C2P_involved_functions)	•  SPMS-2808 - Field Force	 SPMS-7317 - Carry our maintenance task	•  SPMS-6160 - Field Force
				 SPMS-7325 - Carry out maintenance tasks	•  SPMS-7321 - Field Force
	 SPMS-6663 - Perform system asset diagnosis	 SPMS-2895 - Monitor+Store Traffic CS System asset state + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2121 - Monitor+Evaluate system asset state	•  SPMS-2098 - CCS System
				 SPMS-7011 - Monitor+Store European Trackside Protection System asset state	•  SPMS-5062 - European Trackside Protection System
		 SPMS-4502 - Monitor+Evaluate system asset state + (Role: _C2P_involved_functions)	•  SPMS-2819 - Transversal CCS System	 SPMS-2121 - Monitor+Evaluate system asset state	•  SPMS-2098 - CCS System










































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-7009 - Monitor+Evaluate system asset state	 SPMS-6295 - Service Function Diagnostics System
		 SPMS-4503 - Plan maintenance tasks+Manage asset + (Role: _C2P_involved_functions)	 SPMS-6528 - Asset Management System	 SPMS-2111 - Plan maintenance tasks+Manage asset	 SPMS-6204 - Asset Management System
				 SPMS-7007 - Plan maintenance tasks+Manage asset	 SPMS-6997 - Asset Management System
		 SPMS-6529 - Analyse Infrastructure Manager system asset state + (Role: _C2P_involved_functions)	 SPMS-6526 - Infrastructure Management Diagnostic System	 SPMS-6206 - Analyse Infrastructure Manager system asset state	 SPMS-6202 - Infrastructure Management Diagnostic System
				 SPMS-7004 - Analyse Infrastructure Manager system asset state	 SPMS-6999 - Infrastructure Management Diagnostic System
		 SPMS-6530 - Analyse Railway Undertaking system asset state + (Role: _C2P_involved_functions)	 SPMS-6527 - Railway Undertaking Diagnostic System	 SPMS-6207 - Analyse Railway Undertaking system asset state	 SPMS-6203 - Railway Undertaking Diagnostic System
				 SPMS-7005 - Analyse Railway Undertaking system asset state	 SPMS-6998 - Railway Undertaking Diagnostic System
		 SPMS-6532 - Monitor system asset state information + (Role: _C2P_involved_functions)	 SPMS-2827 - Signaller	 SPMS-6482 - Monitor system asset state information	 SPMS-2090 - Signaller
				 SPMS-7003 - Monitor system asset state information	 SPMS-5110 - Signaller
		 SPMS-6533 - Monitor+Store Trackside Assets CS System asset state + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2121 - Monitor+Evaluate system asset state	 SPMS-2098 - CCS System
				 SPMS-7010 - Monitor+Store Point system asset state	 SPMS-5068 - Subsystem - Point









































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6884 - Monitor+Store Train CS System asset state + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2121 - Monitor+Evaluate system asset state	 SPMS-2098 - CCS System
		 SPMS-7319 - Carry out maintenance tasks + (Role: _C2P_involved_functions)	 SPMS-2808 - Field Force	 SPMS-7012 - Monitor+Store ETCS-OB system asset state	 SPMS-5063 - European Train Control System On-board
				 SPMS-7317 - Carry our maintenance task	 SPMS-6160 - Field Force
				 SPMS-7325 - Carry out maintenance tasks	 SPMS-7321 - Field Force
	 SPMS-6979 - Perform system asset diagnosis (logistic data)	 SPMS-2895 - Monitor+Store Traffic CS System asset state + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2121 - Monitor+Evaluate system asset state	 SPMS-2098 - CCS System
		 SPMS-4502 - Monitor+Evaluate system asset state + (Role: _C2P_involved_functions)	 SPMS-2819 - Transversal CCS System	 SPMS-7011 - Monitor+Store European Trackside Protection System asset state	 SPMS-5062 - European Trackside Protection System
				 SPMS-2121 - Monitor+Evaluate system asset state	 SPMS-2098 - CCS System
				 SPMS-7009 - Monitor+Evaluate system asset state	 SPMS-6295 - Service Function Diagnostics System
		 SPMS-4503 - Plan maintenance tasks+Manage asset + (Role: _C2P_involved_functions)	 SPMS-6528 - Asset Management System	 SPMS-2111 - Plan maintenance tasks+Manage asset	 SPMS-6204 - Asset Management System
				 SPMS-7007 - Plan maintenance tasks+Manage asset	 SPMS-6997 - Asset Management System
		 SPMS-6533 - Monitor+Store Trackside Assets CS System asset state + (Role: _C2P_involved_functions)	 SPMS-2818 - Trackside Assets CS System	 SPMS-2121 - Monitor+Evaluate system asset state	 SPMS-2098 - CCS System
				 SPMS-7010 - Monitor+Store Point system asset state	 SPMS-5068 - Subsystem - Point


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to	
		<div><div><div>SF</div></div>SPMS-6884 - Monitor+Store Train CS System asset state</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div><div>CCS</div></div>SPMS-2807 - Train CS System</div>	<div><div><div>SF</div></div>SPMS-2121 - Monitor+Evaluate system asset state</div>	<div><div><div>CCS</div></div>SPMS-2098 - CCS System</div>	
				<div><div><div>SF</div></div>SPMS-7012 - Monitor+Store ETCS-OB system asset state</div>	<div><div><div>CCS</div></div>SPMS-5063 - European Train Control System On-board</div>	
<div><div><div>C</div></div>SPMS-6623 - Paused Drive train in reverse without changing the cabin/no change of orientation</div>						
<div><div><div>C</div></div>SPMS-6624 - Open train doors</div>	<div><div><div>TD</div></div>SPMS-6658 - Open train doors</div>	<div><div><div>SF</div></div>SPMS-2107 - Control state of train doors</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div><div>CCS</div></div>SPMS-2098 - CCS System</div>	<div><div><div>SF</div></div>SPMS-2928 - Control state of train doors</div>	<div><div><div>CCS</div></div>SPMS-2807 - Train CS System</div>	
		<div><div><div>SF</div></div>SPMS-2114 - Implement specific doors state</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>		<div><div><div>RSOS</div></div>SPMS-2094 - Rolling Stock Operation System</div>	<div><div><div>SF</div></div>SPMS-5332 - Generate train-specific timetable information</div>	<div><div><div>CCS</div></div>SPMS-2823 - Traffic CS System</div>
					<div><div><div>SF</div></div>SPMS-6971 - Determine proximity of station platform</div>	<div><div><div>CCS</div></div>SPMS-2807 - Train CS System</div>
		<div><div><div>SF</div></div>SPMS-2158 - Supervise guideway of one train</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div><div>RSOS</div></div>SPMS-2096 - Driver</div>	<div><div><div>SF</div></div>SPMS-2933 - Supervise guideway of one train</div>	<div><div><div>RSOS</div></div>SPMS-2822 - Driver</div>	
		<div><div><div>SF</div></div>SPMS-2160 - Calculate information to support driving</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div><div>CCS</div></div>SPMS-2098 - CCS System</div>	<div><div><div>SF</div></div>SPMS-2862 - Calculate information to support driving</div>	<div><div><div>CCS</div></div>SPMS-2807 - Train CS System</div>	
				<div><div><div>SF</div></div>SPMS-5332 - Generate train-specific timetable information</div>	<div><div><div>CCS</div></div>SPMS-2823 - Traffic CS System</div>	
		<div><div><div>SF</div></div>SPMS-2177 - Supervise passenger exchange</div> <div>+</div> <div>(Role: _C2P_involved_functions)</div>	<div><div><div>RSOS</div></div>SPMS-2096 - Driver</div>	<div><div><div>SF</div></div>SPMS-4560 - Supervise passenger exchange</div>	<div><div><div>RSOS</div></div>SPMS-2822 - Driver</div>	

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
	 SPMS-6729 - Open train doors	 SPMS-2107 - Control state of train doors + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2928 - Control state of train doors	•  SPMS-2807 - Train CS System
		 SPMS-5332 - Generate train-specific timetable information		•  SPMS-2823 - Traffic CS System	
		 SPMS-6971 - Determine proximity of station platform		•  SPMS-2807 - Train CS System	
		 SPMS-2114 - Implement specific doors state + (Role: _C2P_involved_functions)	•  SPMS-2094 - Rolling Stock Operation System	 SPMS-4559 - Implement specific doors state	•  SPMS-2820 - Rolling Stock Operation System
		 SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2862 - Calculate information to support driving	•  SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	•  SPMS-2823 - Traffic CS System
		 SPMS-2177 - Supervise passenger exchange + (Role: _C2P_involved_functions)	•  SPMS-2096 - Driver	 SPMS-4560 - Supervise passenger exchange	•  SPMS-2822 - Driver
		 SPMS-2213 - Requested state of doors + (Role: _C2P_involved_links)	•  SPMS-2195 - I_SUBSET_139	 SPMS-4564 - Requested state of doors	•  SPMS-4493 - I_SUBSET_139
		 SPMS-2316 - Observed state of doors + (Role: _C2P_involved_links)	•  SPMS-2195 - I_SUBSET_139	 SPMS-4562 - Observed state of doors	•  SPMS-4493 - I_SUBSET_139
		 SPMS-2329 - Indicated supporting information + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-4561 - Indicated supporting information	•  SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2346 - Requested state of doors manually + (Role: _C2P_involved_links)		 SPMS-4568 - Requested state of doors	
 SPMS-6515 - Observed state of doors + (Role: _C2P_involved_links)	•  SPMS-2195 - I_SUBSET_139	 SPMS-6525 - Observed state of doors	•  SPMS-4493 - I_SUBSET_139		





































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
 SPMS-6625 - Close train doors	 SPMS-6659 - Close train doors	 SPMS-2107 - Control state of train doors + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2928 - Control state of train doors	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
				 SPMS-6971 - Determine proximity of station platform	 SPMS-2807 - Train CS System
		 SPMS-2114 - Implement specific doors state + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-4559 - Implement specific doors state	 SPMS-2820 - Rolling Stock Operation System
		 SPMS-2158 - Supervise guideway of one train + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-2933 - Supervise guideway of one train	 SPMS-2822 - Driver
		 SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2862 - Calculate information to support driving	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
		 SPMS-2177 - Supervise passenger exchange + (Role: _C2P_involved_functions)	 SPMS-2096 - Driver	 SPMS-4560 - Supervise passenger exchange	 SPMS-2822 - Driver
	 SPMS-6881 - Close train doors	 SPMS-2107 - Control state of train doors + (Role: _C2P_involved_functions)	 SPMS-2098 - CCS System	 SPMS-2928 - Control state of train doors	 SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
				 SPMS-6971 - Determine proximity of station platform	 SPMS-2807 - Train CS System
		 SPMS-2114 - Implement specific doors state + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-4559 - Implement specific doors state	 SPMS-2820 - Rolling Stock Operation System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2160 - Calculate information to support driving + (Role: _C2P_involved_functions)	•  SPMS-2098 - CCS System	 SPMS-2862 - Calculate information to support driving	•  SPMS-2807 - Train CS System
				 SPMS-5332 - Generate train-specific timetable information	•  SPMS-2823 - Traffic CS System
		 SPMS-2177 - Supervise passenger exchange + (Role: _C2P_involved_functions)	•  SPMS-2096 - Driver	 SPMS-4560 - Supervise passenger exchange	•  SPMS-2822 - Driver
		 SPMS-2213 - Requested state of doors + (Role: _C2P_involved_links)	•  SPMS-2195 - I_SUBSET_139	 SPMS-4564 - Requested state of doors	•  SPMS-4493 - I_SUBSET_139
		 SPMS-2316 - Observed state of doors + (Role: _C2P_involved_links)	•  SPMS-2195 - I_SUBSET_139	 SPMS-4562 - Observed state of doors	•  SPMS-4493 - I_SUBSET_139
		 SPMS-2329 - Indicated supporting information + (Role: _C2P_involved_links)	•  SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-4561 - Indicated supporting information	•  SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-2346 - Requested state of doors manually + (Role: _C2P_involved_links)		 SPMS-4568 - Requested state of doors	
 SPMS-6888 - Open train doors	 SPMS-6899 - Open train doors	 SPMS-2862 - Calculate information to support driving + (Role: _C2P_involved_functions)	•  SPMS-2807 - Train CS System	 SPMS-2160 - Calculate information to support driving	•  SPMS-2098 - CCS System
				 SPMS-4895 - Indicate information to support driving	•  SPMS-5073 - Multi Display System
				 SPMS-7838 - Calculate information to support driving	•  SPMS-5057 - Automatic Train Operation On-board
		 SPMS-2874 - Control track path allocation for movement permissions	•  SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	•  SPMS-2098 - CCS System


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		 SPMS-4878 - Control execution of movement permission request	•  SPMS-5060 - Plan Execution System
		 SPMS-4883 - Authorise movement permissions		•  SPMS-5062 - European Trackside Protection System	
		 SPMS-5355 - Report operating state		•  SPMS-5060 - Plan Execution System	
		 SPMS-2928 - Control state of train doors + _C2P_involved_functions) (Role:	•  SPMS-2807 - Train CS System	 SPMS-2107 - Control state of train doors	•  SPMS-2098 - CCS System
		 SPMS-7843 - Control state of train doors		•  SPMS-5057 - Automatic Train Operation On-board	
		 SPMS-4559 - Implement specific doors state + _C2P_involved_functions) (Role:	•  SPMS-2820 - Rolling Stock Operation System	 SPMS-2114 - Implement specific doors state	•  SPMS-2094 - Rolling Stock Operation System
		 SPMS-7845 - Implement specific doors state		•  SPMS-5108 - Rolling Stock Operation System	
		 SPMS-4560 - Supervise passenger exchange + _C2P_involved_functions) (Role:	•  SPMS-2822 - Driver	 SPMS-2177 - Supervise passenger exchange	•  SPMS-2096 - Driver
		 SPMS-7851 - Supervise passenger exchange		•  SPMS-5105 - Driver	
		 SPMS-5332 - Generate train-specific timetable information + (Role: _C2P_involved_functions)	•  SPMS-2823 - Traffic CS System	 SPMS-2107 - Control state of train doors	•  SPMS-2098 - CCS System
		 SPMS-2160 - Calculate information to support driving		•  SPMS-2098 - CCS System	
		 SPMS-2180 - Control automatic driving speed of one train		•  SPMS-2098 - CCS System	


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4879 - Generate journey profile for one train unit	 SPMS-5058 - Automatic Train Operation Trackside
				 SPMS-4915 - Generate segment profile for one train	 SPMS-5058 - Automatic Train Operation Trackside
		 SPMS-6971 - Determine proximity of station platform + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2107 - Control state of train doors	 SPMS-2098 - CCS System
				 SPMS-7844 - Determine proximity of station platform	 SPMS-5063 - European Train Control System On-board
	 SPMS-6911 - Open train doors	 SPMS-2843 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	 SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	 SPMS-5111 - Traffic Management System
		 SPMS-2862 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2160 - Calculate information to support driving	 SPMS-2098 - CCS System
				 SPMS-4895 - Indicate information to support driving	 SPMS-5073 - Multi Display System
				 SPMS-7838 - Calculate information to support driving	 SPMS-5057 - Automatic Train Operation On-board
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
				 SPMS-4878 - Control execution of movement permission request	 SPMS-5060 - Plan Execution System
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System












































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2928 - Control state of train doors + _C2P_involved_functions) (Role:	 SPMS-2807 - Train CS System	 SPMS-2107 - Control state of train doors	 SPMS-2098 - CCS System
				 SPMS-7843 - Control state of train doors	 SPMS-5057 - Automatic Train Operation On-board
		 SPMS-3182 - Generated train-specific timetable and infrastructure information + _C2P_involved_links) (Role:	 SPMS-2952 - I_CCS_1	 SPMS-2354 - Required operational traffic plan	 SPMS-2200 - I_TrafficManagementSystem
				 SPMS-7862 - Defined segment profile	 SPMS-6307 - I_SUBSET_126
				 SPMS-7865 - Generated journey profile	 SPMS-6307 - I_SUBSET_126
		 SPMS-4549 - Generated train-specific timetable information + (Role: _C2P_involved_links)	 SPMS-2952 - I_CCS_1	 SPMS-2359 - Required operational traffic plan	 SPMS-2200 - I_TrafficManagementSystem
				 SPMS-7863 - Defined segment profile	 SPMS-6307 - I_SUBSET_126
				 SPMS-7866 - Generated journey profile	 SPMS-6307 - I_SUBSET_126
		 SPMS-4559 - Implement specific doors state + _C2P_involved_functions) (Role:	 SPMS-2820 - Rolling Stock Operation System	 SPMS-2114 - Implement specific doors state	 SPMS-2094 - Rolling Stock Operation System
				 SPMS-7845 - Implement specific doors state	 SPMS-5108 - Rolling Stock Operation System
		 SPMS-4560 - Supervise passenger exchange + _C2P_involved_functions) (Role:	 SPMS-2822 - Driver	 SPMS-2177 - Supervise passenger exchange	 SPMS-2096 - Driver
				 SPMS-7851 - Supervise passenger exchange	 SPMS-5105 - Driver



































































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4561 - <span>Indicated supporting information</span> + (Role: _C2P_involved_links)	•  SPMS-2961 - <span>DMI_Driver_Machine_Interface</span>	 SPMS-2329 - <span>Indicated supporting information</span>	•  SPMS-2204 - <span>DMI_Driver_Machine_Interface</span>
				 SPMS-7871 - <span>Indicated supporting information</span>	•  SPMS-6296 - <span>HMI_Driver_Machine_Interface</span>
		 SPMS-4562 - <span>Observed state of doors</span> + (Role: _C2P_involved_links)	•  SPMS-4493 - <span>I_SUBSET_139</span>	 SPMS-2316 - <span>Observed state of doors</span>	•  SPMS-2195 - <span>I_SUBSET_139</span>
				 SPMS-7873 - <span>Observed state of doors</span>	
		 SPMS-4564 - <span>Requested state of doors</span> + (Role: _C2P_involved_links)	•  SPMS-4493 - <span>I_SUBSET_139</span>	 SPMS-2213 - <span>Requested state of doors</span>	•  SPMS-2195 - <span>I_SUBSET_139</span>
				 SPMS-7884 - <span>Requested state of doors</span>	
		 SPMS-4568 - <span>Requested state of doors</span> + (Role: _C2P_involved_links)		 SPMS-2346 - <span>Requested state of doors manually</span>	
				 SPMS-7883 - <span>Requested state of doors</span>	
		 SPMS-5332 - <span>Generate train-specific timetable information</span> + (Role: _C2P_involved_functions)	•  SPMS-2823 - <span>Traffic CS System</span>	 SPMS-2107 - <span>Control state of train doors</span>	•  SPMS-2098 - <span>CCS System</span>
				 SPMS-2160 - <span>Calculate information to support driving</span>	•  SPMS-2098 - <span>CCS System</span>
				 SPMS-2180 - <span>Control automatic driving speed of one train</span>	•  SPMS-2098 - <span>CCS System</span>
				 SPMS-4879 - <span>Generate journey profile for one train unit</span>	•  SPMS-5058 - <span>Automatic Train Operation Trackside</span>
				 SPMS-4915 - <span>Generate segment profile for one train</span>	•  SPMS-5058 - <span>Automatic Train Operation Trackside</span>
				•  SPMS-2958 - <span>I_TrafficManagementSystem_01</span>	 SPMS-2354 - <span>Required operational traffic plan</span>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-5333 - Required operational traffic plan + (Role: _C2P_involved_links)		 SPMS-2359 - Required operational traffic plan	•  SPMS-2200 - I_TrafficManagementSystem
				 SPMS-2360 - Required operational traffic plan	•  SPMS-2200 - I_TrafficManagementSystem
		 SPMS-6525 - Observed state of doors + (Role: _C2P_involved_links)	•  SPMS-4493 - I_SUBSET_139	 SPMS-6515 - Observed state of doors	•  SPMS-2195 - I_SUBSET_139
			•  SPMS-2807 - Train CS System	 SPMS-2107 - Control state of train doors	•  SPMS-2098 - CCS System
		 SPMS-6971 - Determine proximity of station platform + (Role: _C2P_involved_functions)		 SPMS-7844 - Determine proximity of station platform	•  SPMS-5063 - European Train Control System On-board
		 SPMS-6973 - Determinated distance to the next station platform and properties + (Role: _C2P_involved_links)	•  SPMS-2971 - I_SUBSET_034_119	 SPMS-7864 - Determinated distance to the next station platform and properties	•  SPMS-2197 - I_SUBSET_034_119
				 SPMS-7976 - Provided station and platform information	
		 SPMS-6982 - Allocated track path + (Role: _C2P_involved_links)	•  SPMS-2952 - I_CCS_1		
 SPMS-6995 - Perform system asset diagnosis	 SPMS-7080 - [ES] Perform system asset diagnosis				
 SPMS-7043 - Change of train orientation	 SPMS-7044 - Change of train orientation (planned)				
	 SPMS-7045 - Change of train orientation				
 SPMS-7091 - Perform emergency stop	 SPMS-7093 - Perform emergency stop (requested by signaller)	 SPMS-2106 - Control relative traction and braking effort manually	•  SPMS-2096 - Driver	 SPMS-2836 - Control relative traction and braking effort manually	•  SPMS-2822 - Driver
































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role: _C2P_involved_functions)			
		 SPMS-2126 - Control start of mission activities manually + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2852 - Control start of mission activities	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
		 SPMS-2137 - Ensure safe movement of trains + _C2P_involved_functions) (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>	 SPMS-2872 - Calculate safe speed profiles of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2897 - Supervise standstill of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-2921 - Supervise compliance of speed profiles of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
				 SPMS-7115 - Acknowledge train data	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-2146 - Implement specific traction and braking effort + _C2P_involved_functions) (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2094 - Rolling Stock Operation System</li> </ul>	 SPMS-2837 - Implement specific traction and braking effort	<ul style="list-style-type: none"> <li> SPMS-2820 - Rolling Stock Operation System</li> </ul>
		 SPMS-2148 - Calculate operational traffic plan + _C2P_involved_functions) (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2097 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2090 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
	 SPMS-7102 - Perform emergency stop	 SPMS-2106 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-2096 - Driver</li> </ul>	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li> SPMS-2822 - Driver</li> </ul>
			<ul style="list-style-type: none"> <li> SPMS-2098 - CCS System</li> </ul>		<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-2137 - Ensure safe movement of trains + (Role: _C2P_involved_functions)		 SPMS-2872 - Calculate safe speed profiles of one train	
				 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2897 - Supervise standstill of one train	 SPMS-2807 - Train CS System
				 SPMS-2921 - Supervise compliance of speed profiles of one train	 SPMS-2807 - Train CS System
				 SPMS-7115 - Acknowledge train data	 SPMS-2823 - Traffic CS System
		 SPMS-2146 - Implement specific traction and braking effort + (Role: _C2P_involved_functions)	 SPMS-2094 - Rolling Stock Operation System	 SPMS-2837 - Implement specific traction and braking effort	 SPMS-2820 - Rolling Stock Operation System
		 SPMS-2148 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-2097 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-2167 - Supervise state of railway operation + (Role: _C2P_involved_functions)	 SPMS-2090 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-2249 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2200 - I_TrafficManagementSystem	 SPMS-3052 - Allocated track path	 SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-2326 - Authorised distance and speed restriction + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-3191 - Calculated supervision limits	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-6694 - Acknowledged permission + (Role: _C2P_involved_links)	 SPMS-2204 - DMI_Driver_Machine_Interface	 SPMS-6981 - Acknowledged permission	 SPMS-2961 - DMI_Driver_Machine_Interface
		 SPMS-6951 - Required state of full service brake or traction cut off or emergency brake	 SPMS-2197 - I_SUBSET_034_119	 SPMS-3020 - Required state of full service brake	 SPMS-2971 - I_SUBSET_034_119









































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_links) (Role:		or traction cut off or emergency brake	•  SPMS-2971 - I_SUBSET_034_119
				 SPMS-3022 - Required state of parking brake or emergency brake	
		 SPMS-7094 - Requested emergency stop + _C2P_involved_links) (Role:		 SPMS-7719 - Request emergency stop	•  SPMS-2963 - HMI_Signaller_01
		 SPMS-7167 - Provided brake status + _C2P_involved_links) (Role:			
 SPMS-7123 - Perform emergency stop	 SPMS-7124 - [ES] Perform emergency stop (requested by signaller)	 SPMS-2836 - Control relative traction and braking effort manually + _C2P_involved_functions) (Role:	•  SPMS-2822 - Driver	 SPMS-2106 - Control relative traction and braking effort manually	•  SPMS-2096 - Driver
				 SPMS-5502 - Control relative traction and braking effort manually	•  SPMS-5105 - Driver
		 SPMS-2837 - Implement specific traction and braking effort + _C2P_involved_functions) (Role:	•  SPMS-2820 - Rolling Stock Operation System	 SPMS-2146 - Implement specific traction and braking effort	•  SPMS-2094 - Rolling Stock Operation System
				 SPMS-6100 - Implement specific traction and braking effort	•  SPMS-5108 - Rolling Stock Operation System
		 SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-2813 - Traffic Management System	 SPMS-2148 - Calculate operational traffic plan	•  SPMS-2097 - Traffic Management System
				 SPMS-4875 - Calculate operational traffic plan	•  SPMS-5111 - Traffic Management System
		 SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	•  SPMS-2827 - Signaller	 SPMS-2167 - Supervise state of railway operation	•  SPMS-2090 - Signaller

























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4908 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>
		 SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
		 SPMS-2874 - Control track path allocation for movement permissions + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4878 - Control execution of movement permission request	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
				 SPMS-4883 - Authorise movement permissions	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
		 SPMS-2921 - Supervise compliance of speed profiles of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2807 - Train CS System</li> </ul>	 SPMS-2137 - Ensure safe movement of trains	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>	 SPMS-7849 - Supervise compliance of speed profiles of one train	<ul style="list-style-type: none"> <li>•  SPMS-5063 - European Train Control System On-board</li> </ul>
				 SPMS-2192 - Sense+Observe motion of one train	<ul style="list-style-type: none"> <li>•  SPMS-2098 - CCS System</li> </ul>
				 SPMS-4871 - Aggregate movable object information	<ul style="list-style-type: none"> <li>•  SPMS-5062 - European Trackside Protection System</li> </ul>
				 SPMS-5355 - Report operating state	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>
	 SPMS-7720 - Perform emergency stop	 SPMS-2836 - Control relative traction and braking effort manually	<ul style="list-style-type: none"> <li>•  SPMS-2822 - Driver</li> </ul>		<ul style="list-style-type: none"> <li>•  SPMS-2096 - Driver</li> </ul>
































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_functions) (Role:		SPMS-2106 - Control relative traction and braking effort manually	
				SPMS-5502 - Control relative traction and braking effort manually	• SPMS-5105 - Driver
		SPMS-2837 - Implement specific traction and braking effort + _C2P_involved_functions) (Role:	• SPMS-2820 - Rolling Stock Operation System	SPMS-2146 - Implement specific traction and braking effort	• SPMS-2094 - Rolling Stock Operation System
				SPMS-6100 - Implement specific traction and braking effort	• SPMS-5108 - Rolling Stock Operation System
		SPMS-2843 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	• SPMS-2813 - Traffic Management System	SPMS-2148 - Calculate operational traffic plan	• SPMS-2097 - Traffic Management System
				SPMS-4875 - Calculate operational traffic plan	• SPMS-5111 - Traffic Management System
		SPMS-2853 - Supervise state of the railway + _C2P_involved_functions) (Role:	• SPMS-2827 - Signaller	SPMS-2167 - Supervise state of railway operation	• SPMS-2090 - Signaller
				SPMS-4908 - Supervise state of the railway	• SPMS-5110 - Signaller
		SPMS-2872 - Calculate safe speed profiles of one train + (Role: _C2P_involved_functions)	• SPMS-2807 - Train CS System	SPMS-2137 - Ensure safe movement of trains	• SPMS-2098 - CCS System
				SPMS-4873 - Calculate safe speed profiles	• SPMS-5063 - European Train Control System On-board
		SPMS-2874 - Control track path allocation for movement permissions + _C2P_involved_functions) (Role:	• SPMS-2823 - Traffic CS System	SPMS-2137 - Ensure safe movement of trains	• SPMS-2098 - CCS System
				SPMS-4878 - Control execution of movement permission request	• SPMS-5060 - Plan Execution System


































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
				 SPMS-4883 - Authorise movement permissions	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-2921 - Supervise compliance of speed profiles of one train + (Role: _C2P_involved_functions)	 SPMS-2807 - Train CS System	 SPMS-2137 - Ensure safe movement of trains	 SPMS-2098 - CCS System
		 SPMS-2944 - Aggregate movable objects information + (Role: _C2P_involved_functions)	 SPMS-2823 - Traffic CS System	 SPMS-7849 - Supervise compliance of speed profiles of one train	 SPMS-5063 - European Train Control System On-board
				 SPMS-2192 - Sense+Observe motion of one train	 SPMS-2098 - CCS System
				 SPMS-4871 - Aggregate movable object information	 SPMS-5062 - European Trackside Protection System
				 SPMS-5355 - Report operating state	 SPMS-5060 - Plan Execution System
		 SPMS-3020 - Required state of full service brake or traction cut off or emergency brake + (Role: _C2P_involved_links)	 SPMS-2971 - I_SUBSET_034_119	 SPMS-6951 - Required state of full service brake or traction cut off or emergency brake	 SPMS-2197 - I_SUBSET_034_119
		 SPMS-3050 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-2958 - I_TrafficManagementSystem_01	 SPMS-7888 - Required state of full service brake or traction cut off or emergency brake	
				 SPMS-2300 - Estimated motion state	 SPMS-2200 - I_TrafficManagementSystem
		 SPMS-4666 - Aggregated track occupancy and train status information + (Role: _C2P_involved_links)	 SPMS-2963 - HMI_Signaller_01	 SPMS-2330 - Estimated motion state	 SPMS-2198 - HMI_Signaller




























































System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6981 - Acknowledged permission + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2961 - DMI_Driver_Machine_Interface</li> </ul>	 SPMS-6694 - Acknowledged permission	<ul style="list-style-type: none"> <li> SPMS-2204 - DMI_Driver_Machine_Interface</li> </ul>
		 SPMS-7661 - Allocated track path + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2952 - I_CCS_1</li> </ul>		
		 SPMS-7719 - Request emergency stop + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li> SPMS-2963 - HMI_Signaller_01</li> </ul>	 SPMS-7094 - Requested emergency stop	<ul style="list-style-type: none"> <li> SPMS-2198 - HMI_Signaller</li> </ul>
 SPMS-7140 - Execute end of mission	 SPMS-7150 - Execute end of mission - General	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5062 - European Trackside Protection System</li> </ul>	 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-4874 - Determine state and position of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5063 - European Train Control System On-board</li> </ul>	 SPMS-2878 - Determine position and state of one train	<ul style="list-style-type: none"> <li> SPMS-2807 - Train CS System</li> </ul>
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li> SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4880 - Observe execution state of one operational plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>		
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li> SPMS-2827 - Signaller</li> </ul>
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li> SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li> SPMS-2823 - Traffic CS System</li> </ul>
		 SPMS-6329 - Aggregated track occupancy and train status information	<ul style="list-style-type: none"> <li> SPMS-6308 - SCI_CMD</li> </ul>		






























System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_links) (Role:			
		 SPMS-6334 - Aggregated track occupancy and train status information + _C2P_involved_links) (Role:	•  SPMS-6308 - SCI_CMD		
		 SPMS-6400 - Observed execution state of one operational plan + _C2P_involved_links) (Role:			
		 SPMS-6412 - Observed state and position of one train + (Role: _C2P_involved_links)	•  SPMS-6306 - I_SUBSET_026		
		 SPMS-6416 - Reported operating state + _C2P_involved_links) (Role:		 SPMS-3052 - Allocated track path	•  SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-7141 - Indicate state and position of one train + _C2P_involved_functions) (Role:	•  SPMS-6984 - Signaller Control Panel		
		 SPMS-7146 - Indicated train state + _C2P_involved_links) (Role:	•  SPMS-6305 - HMI_Signaller		
		 SPMS-7215 - Aggregated track occupancy and train status information + _C2P_involved_links) (Role:	•  SPMS-6985 - I_Signaller		
		 SPMS-7970 - Reported operating state + _C2P_involved_links) (Role:			
	 SPMS-7224 - Execute end of mission - General	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	•  SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	•  SPMS-2823 - Traffic CS System
		 SPMS-4874 - Determine state and position of one train + (Role: _C2P_involved_functions)	•  SPMS-5063 - European Train Control System On-board	 SPMS-2878 - Determine position and state of one train	•  SPMS-2807 - Train CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4880 - Observe execution state of one operational plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>		
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5110 - Signaller</li> </ul>	 SPMS-2853 - Supervise state of the railway	<ul style="list-style-type: none"> <li>•  SPMS-2827 - Signaller</li> </ul>
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - Plan Execution System</li> </ul>	 SPMS-2874 - Control track path allocation for movement permissions	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2886 - Observe point status	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
				 SPMS-2944 - Aggregate movable objects information	<ul style="list-style-type: none"> <li>•  SPMS-2823 - Traffic CS System</li> </ul>
	 SPMS-7957 - Execute end of mission - ATO	 SPMS-7141 - Indicate state and position of one train + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-6984 - Signaller Control Panel</li> </ul>		
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5111 - Traffic Management System</li> </ul>	 SPMS-2843 - Calculate operational traffic plan	<ul style="list-style-type: none"> <li>•  SPMS-2813 - Traffic Management System</li> </ul>
		 SPMS-4881 - Determine automatic train operation states + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5058 - Automatic Train Operation Trackside</li> </ul>		
		 SPMS-4909 - Determine status of automatic train operation onboard + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5057 - Automatic Train Operation On-board</li> </ul>		
		 SPMS-6401 - Observed execution state of one operational plan from automatic train operation + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-6304 - SCI_OP_02</li> </ul>		

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6402 - <a href="#">Provided ATO status report</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-6307 - <a href="#">I_SUBSET_126</a></li> </ul>		
		 SPMS-7217 - <a href="#">Manage communication with one ATO-TS</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5057 - <a href="#">Automatic Train Operation On-board</a></li> </ul>		
		 SPMS-7218 - <a href="#">Manage communication with one ATO-OB</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5058 - <a href="#">Automatic Train Operation Trackside</a></li> </ul>		
		 SPMS-7220 - <a href="#">Provided ATO communication session message</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-6307 - <a href="#">I_SUBSET_126</a></li> </ul>		
		 SPMS-7253 - <a href="#">Acknowledged ATO status report</a> + (Role: _C2P_involved_links)	<ul style="list-style-type: none"> <li>•  SPMS-6307 - <a href="#">I_SUBSET_126</a></li> </ul>		
	 SPMS-7961 - <a href="#">Execute end of mission - No communication remaining</a>	 SPMS-4871 - <a href="#">Aggregate movable object information</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5062 - <a href="#">European Trackside Protection System</a></li> </ul>	 SPMS-2944 - <a href="#">Aggregate movable objects information</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-4875 - <a href="#">Calculate operational traffic plan</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5111 - <a href="#">Traffic Management System</a></li> </ul>	 SPMS-2843 - <a href="#">Calculate operational traffic plan</a>	<ul style="list-style-type: none"> <li>•  SPMS-2813 - <a href="#">Traffic Management System</a></li> </ul>
		 SPMS-4908 - <a href="#">Supervise state of the railway</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5110 - <a href="#">Signaller</a></li> </ul>	 SPMS-2853 - <a href="#">Supervise state of the railway</a>	<ul style="list-style-type: none"> <li>•  SPMS-2827 - <a href="#">Signaller</a></li> </ul>
		 SPMS-5355 - <a href="#">Report operating state</a> + (Role: _C2P_involved_functions)	<ul style="list-style-type: none"> <li>•  SPMS-5060 - <a href="#">Plan Execution System</a></li> </ul>	 SPMS-2874 - <a href="#">Control track path allocation for movement permissions</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2886 - <a href="#">Observe point status</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
				 SPMS-2944 - <a href="#">Aggregate movable objects information</a>	<ul style="list-style-type: none"> <li>•  SPMS-2823 - <a href="#">Traffic CS System</a></li> </ul>
		 SPMS-6334 - <a href="#">Aggregated track occupancy and train status information</a>	<ul style="list-style-type: none"> <li>•  SPMS-6308 - <a href="#">SCI_CMD</a></li> </ul>		

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		+ _C2P_involved_links) (Role:			
		 SPMS-6416 - Reported operating state + _C2P_involved_links) (Role:		 SPMS-3052 - Allocated track path	•  SPMS-2958 - I_TrafficManagementSystem_01
		 SPMS-6671 - Manage radio communication session with ETPS + _C2P_involved_functions) (Role:	•  SPMS-5063 - European Train Control System On-board		
		 SPMS-6672 - Manage radio communication session with ETCS-OB + _C2P_involved_functions) (Role:	•  SPMS-5062 - European Trackside Protection System		
		 SPMS-6682 - Provided communication session message + (Role: _C2P_involved_links)	•  SPMS-6306 - I_SUBSET_026		
		 SPMS-6683 - Provided communication session message + (Role: _C2P_involved_links)	•  SPMS-6306 - I_SUBSET_026		
		 SPMS-7141 - Indicate state and position of one train + _C2P_involved_functions) (Role:	•  SPMS-6984 - Signaller Control Panel		
		 SPMS-7146 - Indicated train state + _C2P_involved_links) (Role:	•  SPMS-6305 - HMI_Signaller		
		 SPMS-7215 - Aggregated track occupancy and train status information + _C2P_involved_links) (Role:	•  SPMS-6985 - I_Signaller		
		 SPMS-7969 - Provided communication session message + (Role: _C2P_involved_links)	•  SPMS-6306 - I_SUBSET_026		
	 SPMS-7967 - Execute end of mission - ATO	 SPMS-4875 - Calculate operational traffic plan + _C2P_involved_functions) (Role:	•  SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	•  SPMS-2813 - Traffic Management System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-4881 - Determine automatic train operation states + (Role: _C2P_involved_functions)	 SPMS-5058 - Automatic Train Operation Trackside		
		 SPMS-4909 - Determine status of automatic train operation onboard + (Role: _C2P_involved_functions)	 SPMS-5057 - Automatic Train Operation On-board		
		 SPMS-7217 - Manage communication with one ATO-TS + (Role: _C2P_involved_functions)	 SPMS-5057 - Automatic Train Operation On-board		
		 SPMS-7218 - Manage communication with one ATO-OB + (Role: _C2P_involved_functions)	 SPMS-5058 - Automatic Train Operation Trackside		
	 SPMS-7968 - Execute end of mission - No communication remaining	 SPMS-4871 - Aggregate movable object information + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System	 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System
		 SPMS-4874 - Determine state and position of one train + (Role: _C2P_involved_functions)	 SPMS-5063 - European Train Control System On-board	 SPMS-2878 - Determine position and state of one train	 SPMS-2807 - Train CS System
		 SPMS-4875 - Calculate operational traffic plan + (Role: _C2P_involved_functions)	 SPMS-5111 - Traffic Management System	 SPMS-2843 - Calculate operational traffic plan	 SPMS-2813 - Traffic Management System
		 SPMS-4908 - Supervise state of the railway + (Role: _C2P_involved_functions)	 SPMS-5110 - Signaller	 SPMS-2853 - Supervise state of the railway	 SPMS-2827 - Signaller
		 SPMS-5355 - Report operating state + (Role: _C2P_involved_functions)	 SPMS-5060 - Plan Execution System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
				 SPMS-2886 - Observe point status	 SPMS-2823 - Traffic CS System
				 SPMS-2944 - Aggregate movable objects information	 SPMS-2823 - Traffic CS System

System Capability	Chain / Scenario	Function / Functional Exchange	Allocated to	Realising Function / Realising Functional Exchange	Allocated to
		 SPMS-6671 - Manage radio communication session with ETPS + (Role: _C2P_involved_functions)	 SPMS-5063 - European Train Control System On-board		
		 SPMS-6672 - Manage radio communication session with ETCS-OB + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System		
		 SPMS-7141 - Indicate state and position of one train + (Role: _C2P_involved_functions)	 SPMS-6984 - Signaller Control Panel		
 SPMS-7662 - Activate configuration data					
 SPMS-7977 - Open train doors	 SPMS-7978 - Open train doors	 SPMS-4879 - Generate journey profile for one train unit + (Role: _C2P_involved_functions)	 SPMS-5058 - Automatic Train Operation Trackside	 SPMS-5332 - Generate train-specific timetable information	 SPMS-2823 - Traffic CS System
		 SPMS-4883 - Authorise movement permissions + (Role: _C2P_involved_functions)	 SPMS-5062 - European Trackside Protection System	 SPMS-2874 - Control track path allocation for movement permissions	 SPMS-2823 - Traffic CS System
		 SPMS-7838 - Calculate information to support driving + (Role: _C2P_involved_functions)	 SPMS-5057 - Automatic Train Operation On-board	 SPMS-2862 - Calculate information to support driving	 SPMS-2807 - Train CS System
		 SPMS-7843 - Control state of train doors + (Role: _C2P_involved_functions)	 SPMS-5057 - Automatic Train Operation On-board	 SPMS-2928 - Control state of train doors	 SPMS-2807 - Train CS System
		 SPMS-7844 - Determine proximity of station platform + (Role: _C2P_involved_functions)	 SPMS-5063 - European Train Control System On-board	 SPMS-6971 - Determine proximity of station platform	 SPMS-2807 - Train CS System