CheckTyp	CheckSubTyp	Check	Description (what is tested and how exactly)	Parameter	ve	from tool	ErrorLevel	not	com	read	y function name	
OpenDRIVE			,		1							
schema					+							
Scricina		parse file	is file readable as XML		+		Error		1	+	odr_schema_checker::load_XML	
		xodr schema	the file corresponds to the scheme		x	XMLSchema	Warning			+	odr schema checker::check Schema	
		valid projection string	if projection string is compatible with PROJ4		x	ANTEGORICING	Info		3		our serienta encenernancon serienta	
		has CData	specification string has CData valid section -schema check?		х				?			
		is global ID unique	global ids are unique		T	XMLSchema			1	+		
		is ld type UInt32	is id(road, junction, signal, object, bridge, tunnel, refObj) valid unsigned int 32 value				Warning		1	+	odr schema checker::check Schema ID Type	
		Is Id type Int8	is lane id valid int 8 value				Warning		1	+	odr_schema_checker::check_Schema_Lane_ID_Type	
		no negative values	for length/width/radius -> schema check?									
semantic												
	Roads											
		road linkage Pre/Suc	road have valid Predecessor/Successor ids				Error		4	+	odr_semantic_checker::check_Semantic_Road_Linkage	
		road backward linkage	road A has Predecessor/Successor of road B with Successor/Predecessor back to road A			Trian3DBuilder	Error		2	+	odr_semantic_checker::check_Semantic_Road_Linkage_Backward	
		polynoms valid s and sorted	laneOffset, Crossfall, Shape (s could be equal), Elevation, Superelevation						2			
		Shape valid	t valid, sorted, polynom ok						2			
	LaneSection											
		valid s, sorted	start s must be smaller than road length and sorted, first section starts at 0				Warning		1	+	odr_semantic_checker::check_LaneSection_Valid_S	
			laneSection should have a minimum length (1m?)		1							
		minimum length	ist vermutlich schnell mal kleiner (3DM Daten)		1	ļ	Info	щ	1	+	odr_semantic_checker::check_LaneSection_min_length	
	ļ			-	+	1	<b></b>	Н		<u> </u>		
ļ	Lanes		<u> </u>		1	ļ	<u> </u>	щ	_	_		
		lane linkage	lane have valid Predecessor/Successor lane ids (to adjacent street lanes or lane sections)	-	+	1	Warning	Н		+	odr_semantic_checker::check_Semantic_Lanes_ID_Linkage	
<u> </u>		lane id order	lane ids (from positive left to negative right) are in descending order without gaps		+		Warning	ш	1	+	odr_semantic_checker::check_Semantic_Lanes_Order	
1		ValidateSuccessorPredecessorCount	??? Lanes können mehrere pred/succ haben		+	1		$\vdash$	?			
		Lane Type "none"	is allowed, but no information value -> info output	-	+	1	Info	Н	1		odr_semantic_checker::check_Semantic_Lane_Type	
		lane width > 0	width must always be greater than 0 or at the start/end point of a lanesection >= 0				Warning		_	+	odr_semantic_checker::check_Semantic_Lane_Valid_Width	
		lane width connection	Width of the lanes at begin/end must match the widths of the connected lanes (other road or other lanesection)		+		<u> </u>	1	3			
		Lane propertiy s valid, sorted	Width, Height, Border, Speed, Marking		+			1	2	+	odr_semantic_checker::check_Semantic_Lane_Valid_sOffset	
		Lane valid width	is driving lane a valid width (3.5m)		+		Info	1				
ļ					+		<u> </u>	1				
	Junction				+		<u> </u>	4				
		connection roads	connection roads need pred/succ, connection entry needs to reference to connection road, linkage must fit		+		Error	4	2	+	odr_semantic_checker::check_Semantic_Junction_Connections	
-		driving lanes continue in junction	each driving lane (towads the junction) of the incoming roads must have a connection in the junction		+	T: 200 111	Warning	1	-		odr semantic checker::check Semantic driving lanes continue in junction	
		lane linkage	valid lane ids for from and to		+	Trian3DBuilder	Error	4	_	+	odr_semantic_checker::check_Semantic_Junction_Lane_Linkage	
		lane linkage order	are the linked lanes ordered correctly		+	Trian3DBuilder	Warning	4	1	+	odr_semantic_checker::check_Semantic_Junction_Lane_LinkageOrder	
		no overlapping junctions	First rule in ODR Standard regarding junctions "No junctions of any type shall overlap each other."		+		Error	1				
				_	+			-		-		
	Signals	signal, signalReference	is since to in some of source to and to offer the since Donne	-	╫	Trian3DBuilder	14/	1	-	+	-d	
		valid postion	is signal s in range of road length and t,zOffset in given Range beside the subtype also unit and value should be set ??	-	╫	TriansDBuilder	Warning	1		+	odr_semantic_checker::check_Semantic_Signal_Position	
			(e.g. speed limit 50 sign - type274, subtype50 -> also 50 as value und km/h as unit)									
		value and unit	need country specific lists						3			
		name for dynamic signs	not empty				Warning		1			
		size	valid height, width ( >0 and < maxValue)				Warning		1	+	odr semantic checker::check Semantic Signal Size	
	Objects	object, objectReferences, bridges, tunnels										
		valid position	is object s in range of road length and t,zOffset in given Range, is bridge/tunnel length in range of road length	epsilon?		Trian3DBuilder	Warning		2	+	odr_semantic_checker::check_Semantic_Object_Position	
		size	only radius or (length and width), values >0 and <maxvalue< td=""><td></td><td>Г</td><td></td><td></td><td></td><td>1</td><td>+</td><td>odr_semantic_checker::check_Semantic_Object_Size</td></maxvalue<>		Г				1	+	odr_semantic_checker::check_Semantic_Object_Size	
	<u> </u>	closed attibute for line/area	closed -> last point not first point						1			
		valid repeat obj	s, length		Г				1			
	Signals/Objects	signal, signalReference, object, objectRef			I							
		lane linkage	validFrom, validTo - there are lanes in the corresponding lanesection			Trian3DBuilder	Warning		2	+	odr_semantic_checker::check_Semantic_Lane_validity	
					L							
	Markings				Г							
		valid s	see lane properties									
					Г							
geometry					I							
	RoadGeometry											
		road minimum length	road should have a minimum length (1m?)	min length	L		Info		_ 1	+	odr_geometry_checker::check_Geometry_Road_min_Length	
		-	the length of a geometry element (s + length = s of next or roadLength if last element)									
		geometry length	check the min length of a geometry element		1		Warning	ш	1	+	odr_geometry_checker::check_Geometry_geometry_Length	
		consistency of heading	check heading difference between lanes exceedes threshold	_	1	Trian3DBuilder	<u> </u>	Ш	1	<u> </u>		
		match roads	end of road1 has to match connected end of road2 (position, heading, pitch) - Position muss nicht matchen bei verschiedenen Sideoffsets	1		Trian3DBuilder			2*2			
-	-		J	+	+	manspanider	<del>                                     </del>	+	2*3	├		
	L	match road profile	match start/end values of lanes/polynoms(LaneOffset, Crossfall, Shape, Elevation, Superelevation) of connected roads	L			1	1	2*3	Ц		

		big coordinaten							
	Clothoid								
		element order, curvatures	element order (spiral between lin/arc), spiral start/end curvatures					1	
	ParamPoly3								
		attribute $aU = 0$ , $aV = 0$ , $bV = 0$	the parameters @aU, @aV and @bV shall be zero, @bU shall be > 0	epsilon bU		Warning		2 +	odr_geometry_checker::check_Geometry_ParamPoly3
		if Attribut bV = 0 then cU = 0	?? make sense?						
		if bV and cV = 0 then dU = 0	?? make sense?						
	Polynom								
		height Polynom jumps	see match road profile		Trian3DBuilder				
		width Polynom jumps	see match road profile		Trian3DBuilder				
platform test									
	Spider	loadable							
		use correct road type	checks whether the road type matches the speed of the lane (was mit Baustelle, Autobahnabfahrt?)					2 +	
	VTD	loadable				-	-		
	Carmaker	loadable				-	-		
		line elements	for clothoids there should be no following line elements						
	ESMini	loadable							
		continuity				]-	-		
	CARLA	loadable				1	-		
	OpenPASS	loadable					?		
Linkage									
	CRG	available	Checks if OpenDRIVE is available						