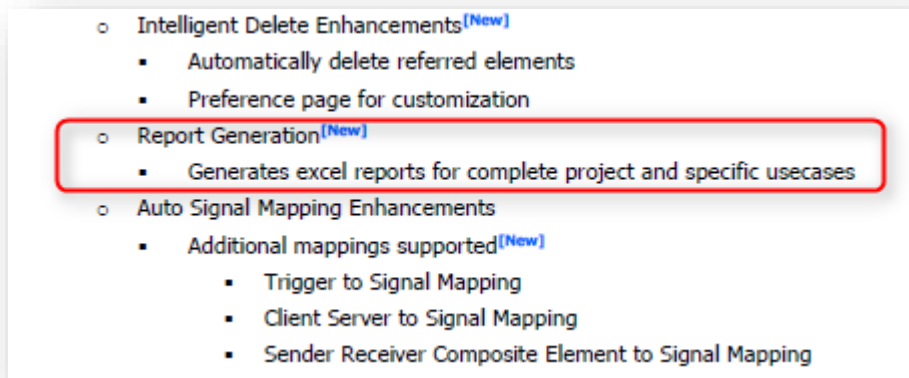


## How to create MS Excel report of AUTOSAR use cases in ISOLAR-A



### Question:

- How to create MS Excel report of AUTOSAR use cases?
- I read in the **What's New** section of the **Release Notes** for **ISOLAR-A V9.4** that there is a new feature called Report Generation:



- How can I use this new feature?
- Is it possible to generate excel reports for complete project and specific use cases of an AUTOSAR project?
- How can I create a tabular overview of my AUTOSAR project?

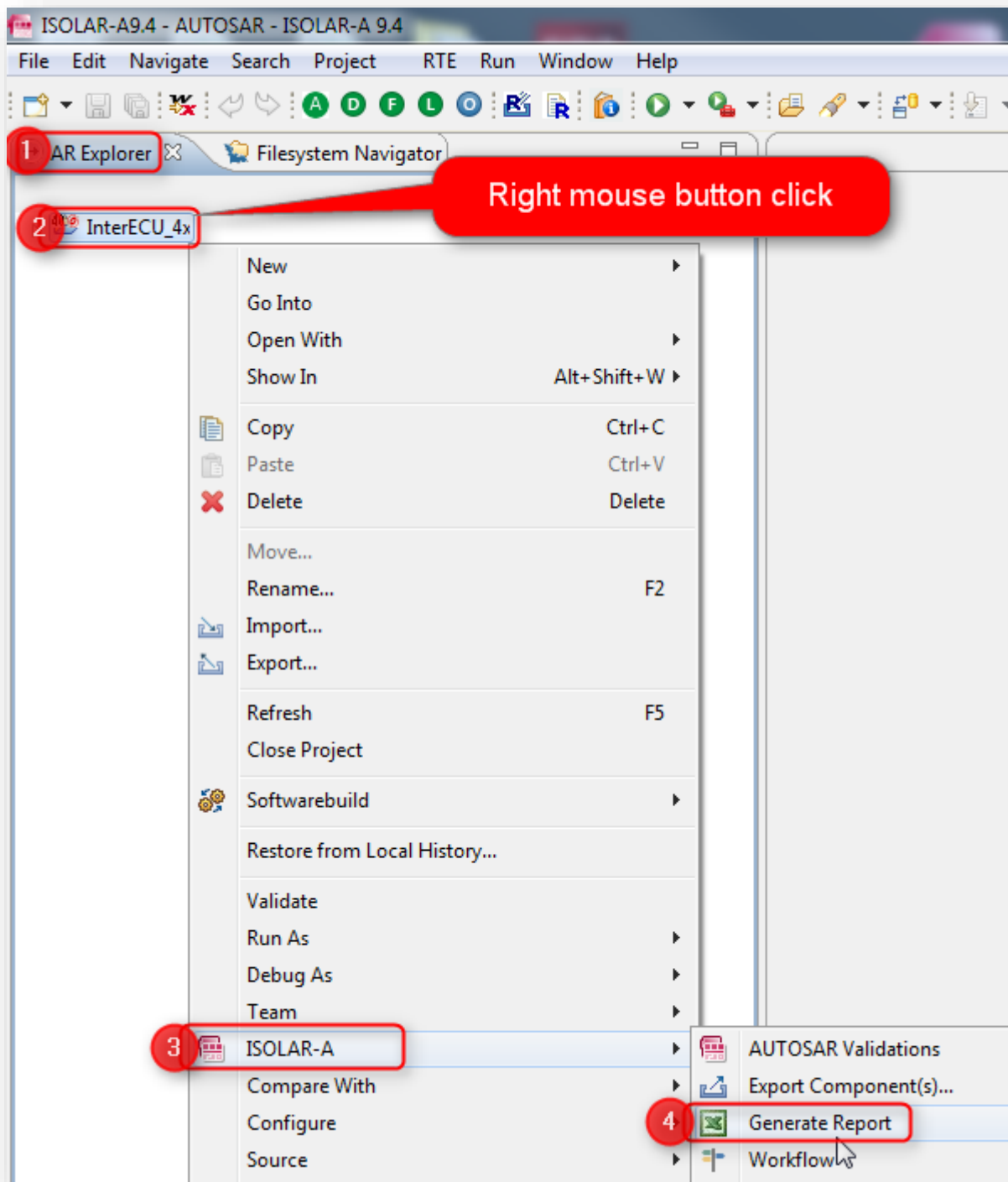


### Answer:

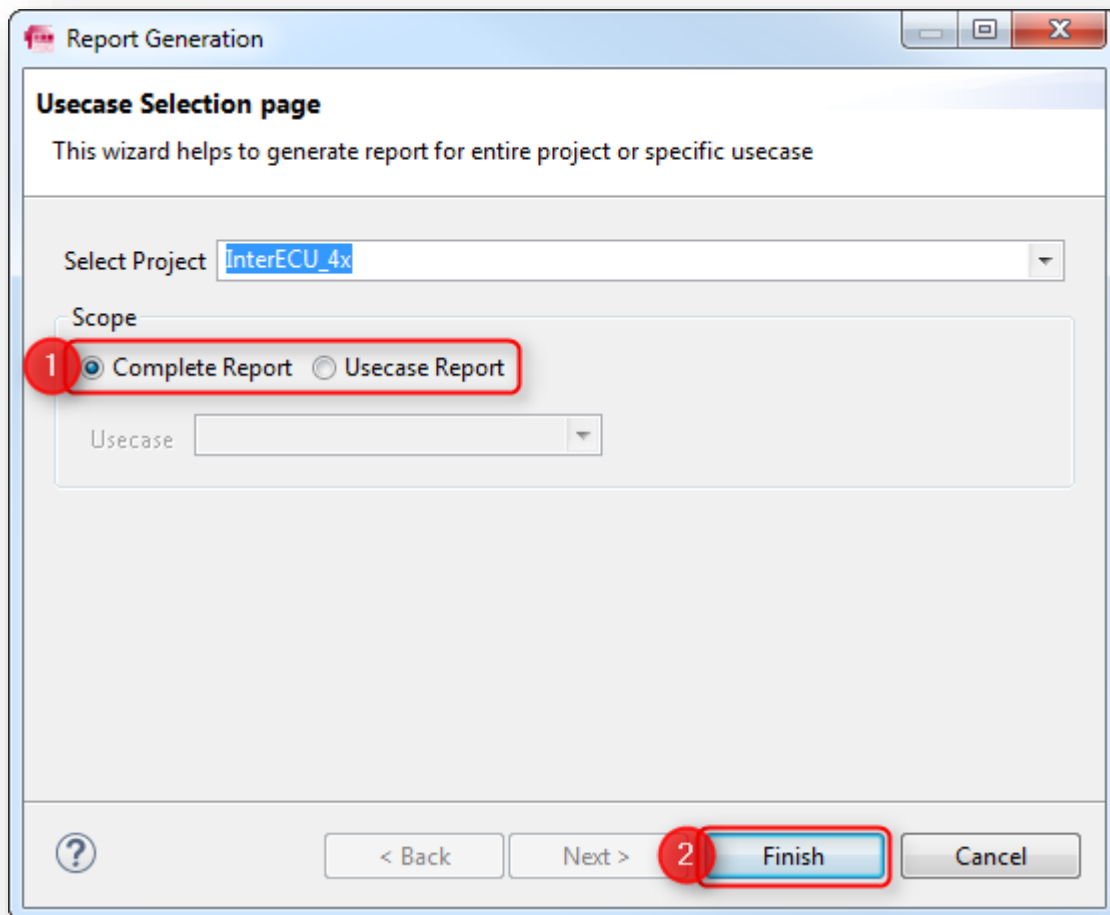
- This feature is available since **ISOLAR-A V9.4** respectively **ISOLAR-AB V3.0**
- The report generation feature helps users to generate Microsoft Excel reports of different ISOLAR use cases as listed below:

<b>Component</b> Report	Generates detailed report of Component behaviors and Ports
<b>Composition</b> Report	Generates detailed report of Component Prototypes & Ports
<b>EcuExtract</b> Report	Generates detailed report of Datamapping, Flatview & FlatMap
<b>Datatypes</b> Report	Generates detailed report of Basetypes, PlatformTypes, Implementation Types & Application Datatypes in a project
Project Report	Generates detailed report of all the above use cases

1. In **ISOLAR-A** in **AR Explorer**:
  1. On a project > Click the right mouse button
  2. Hover over **ISOLAR-A**
  3. On **Generate Report** > Click the left mouse button

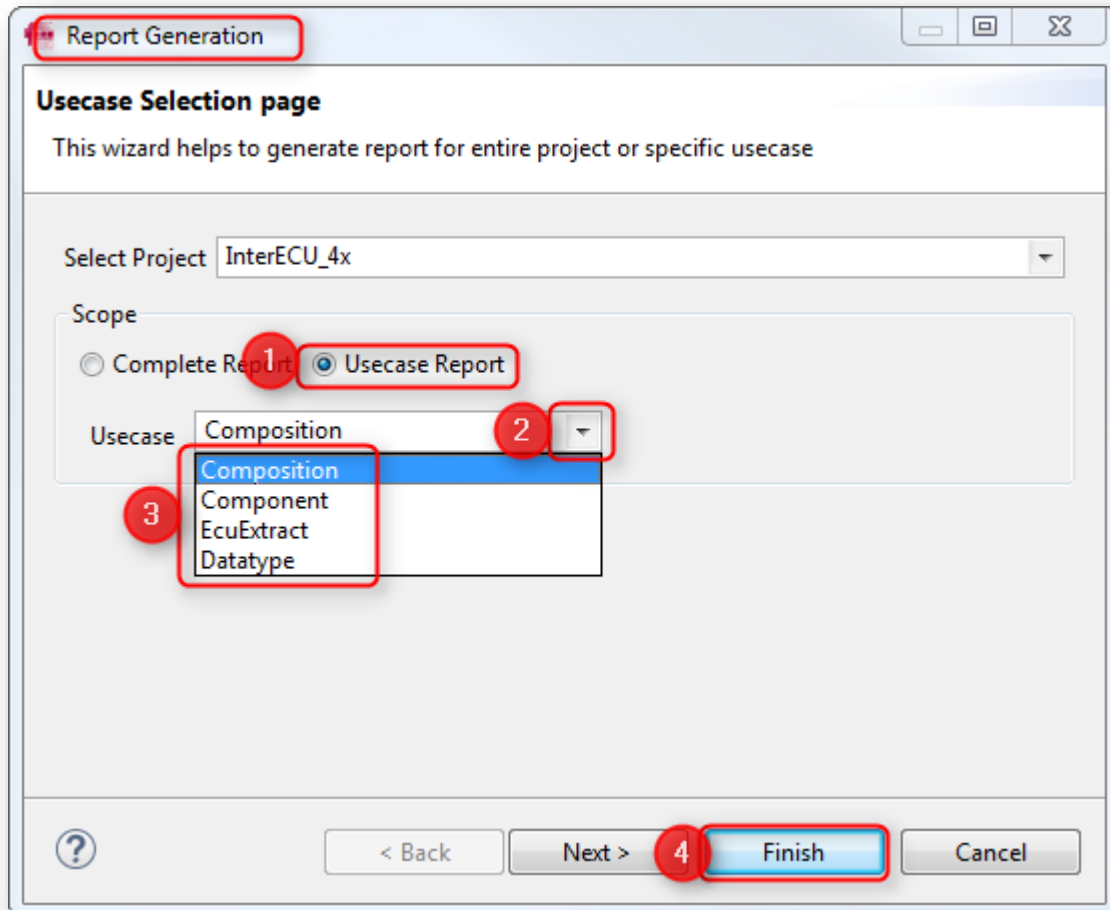


2. In dialog **Report Generation**
  3. In panel **Scope**: Select scope of the report
- **Complete Report** (default setting for scope): just click **Finish** button

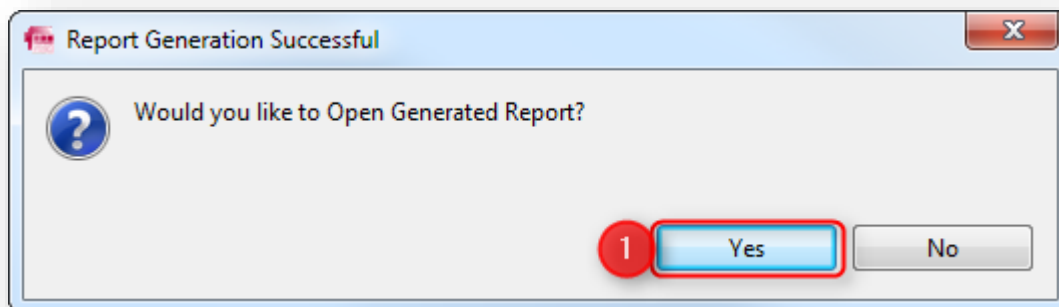


- The **Complete Report** consists of following single **Usecase Reports**
  - **Composition**: Component Prototypes & Ports
  - **Component**: Component behaviors and Ports
  - **EcuExtract**: Datamapping , Flatview & FlatMap
  - **Datatypes**: Basetypes, PlatformTypes, Implementation Types & Application Datatypes

- **Usecase Report:** In case you want to generate a single use case report:
  - In dialog **Report Generation** in panel **Scope**:
  - On option **Usecase Report**: click left mouse button
  - At field **Usecase** > on black triangle: click left mouse button
  - On use case of the report: click left mouse button
  - In order to customize the report click on **Next >** button
  - Click **Finish** button



- The report will be saved under your Windows temp directory, for example as **C:\temp\GenReport.xls**
- In dialog Report Generation Successful: Click Yes button





**Additional information:**

- The **Complete Report** consists of following tabs:
- **Components Summary**

	A	B	C	D	E	F	G	H	I	J
1										
2	<b>Project</b>	InterECU_4x								
3	<b>Date</b>	02/11/17 03:22:03 PM								
4										
5										
6										
7	<b>Component</b>	<b>Internal Behaviours</b>	<b>P Ports</b>	<b>R Ports</b>	<b>PR Ports</b>					
8	<a href="#">Debug</a>	1	1	1	0					
9	<a href="#">WiperControl_100us</a>	1	0	1	0					
10	<a href="#">WiperControl_2ms</a>	1	2	1	0					
11										
12										
13										
14										

Components Summary | Component Overview

- **Component Overview**

	A	B	C	D	E	F	G
1	<b>Component</b>	<b>Port</b>	<b>PortType</b>	<b>Interface</b>	<b>Client Server Operation</b>	<b>DataElement/Trigger</b>	<b>Datatype</b>
2	Debug	P_Torque	P Port	Torque_SRI		DEP_Torque	Appl_UINT16
3						DEP_Debug_SINT8	Appl_SINT8
4						DEP_Debug_SINT16	Appl_SINT16
5	Debug	R_Debug	R Port	Debug_SRI		DEP_Debug_SINT32	Appl_SINT32
6	WiperControl_100us	R_Current	R Port	Current_SRI		DEP_Current	Appl_SINT8
7	WiperControl_2ms	P_Current	P Port	Current_SRI		DEP_Current	Appl_SINT8
8						DEP_Debug_SINT8	Appl_SINT8
9						DEP_Debug_SINT16	Appl_SINT16
10	WiperControl_2ms	P_Debug	P Port	Debug_SRI		DEP_Debug_SINT32	Appl_SINT32
11	WiperControl_2ms	R_Torque	R Port	Torque_SRI		DEP_Torque	Appl_UINT16
12							
13							

Components Summary | **Component Overview**

- Component IB

	A	B	C	D	E
1	<b>Component</b>	<b>Internal Behaviour</b>	<b>Runnable Entity</b>	<b>TriggeredBy</b>	<b>Data Access Point</b>
2					DataReceivePointByValues_0
3					DataReceivePointByValues_1
4					DataReceivePointByValues_2
5	Debug	Debug_IB	Debug_Run		DataSendPoints_0
6	WiperControl_100us	IB_WiperControl_100us	RE_WiperControl_100us	TimingEvent_100us	DataReadAccess_0
7	WiperControl_2ms	IB_WiperControl_2ms	RE_WiperControl_2ms	TimingEvent_0	DataReceivePointByArguments_0
8	WiperControl_2ms	IB_WiperControl_2ms	RE_WiperControl_2ms	TimingEvent_0	DataSendPoints_0
9	WiperControl_2ms	IB_WiperControl_2ms	RE_WiperControl_2ms	TimingEvent_0	DataSendPoints_1
10	WiperControl_2ms	IB_WiperControl_2ms	RE_WiperControl_2ms	TimingEvent_0	DataSendPoints_2
11	WiperControl_2ms	IB_WiperControl_2ms	RE_WiperControl_2ms	TimingEvent_0	DataWriteAccess_0
12					
13					

- Component Ports

	A	B	C	D	E	F	G	H	I	J	K
1	<b>Component</b>	<b>Port</b>	<b>PortType</b>	<b>Connected</b>							
2	Debug	P_Torque	P Port	true							
3	Debug	R_Debug	R Port	true							
4	WiperControl_100us	R_Current	R Port	true							
5	WiperControl_2ms	P_Current	P Port	true							
6	WiperControl_2ms	P_Debug	P Port	true							
7	WiperControl_2ms	R_Torque	R Port	true							
8											
9											
10											
11											
12											
13											
14											

- Composition Summary

	A	B	C	D	E
1					
2	<b>Project</b>	InterECU_4x			
3	<b>Date</b>	02/11/17 03:22:03 PM			
4					
5					
6					
7	<b>Composition</b>	<b>NoOfCpt</b>	<b>NoOfAssemblyConnections</b>	<b>NoOfDelegationConnections</b>	<b>NoOfDataAccessPoints</b>
8	<a href="#">WiperControl_FlatView</a>	2	1	2	0
9	<a href="#">WiperControl_SystemComposition</a>	3	3	0	0
10					
11					
12					
13					
14					

• Component Prototypes

	A	B	C	D	E	F	G
1	<b>Composition</b>	<b>ComponentPrototype</b>	<b>Type</b>	<b>Proxy</b>			
2	WiperControl_FlatView	CPT_WiperControl_100us	WiperControl_100us	false			
3		CPT_WiperControl_2ms	WiperControl_2ms	false			
4	WiperControl_SystemComposition	CPT_Debug	Debug	false			
5		CPT_WiperControl_100us	WiperControl_100us	false			
6		CPT_WiperControl_2ms	WiperControl_2ms	false			
7							
8							
9							
10							
11							
12							
13							
14							

• Ports

	A	B	C	D	E	F	G
1	<b>Composition</b>	<b>ComponentPrototype</b>	<b>Port</b>	<b>PortType</b>	<b>Interface</b>	<b>Connected</b>	<b>Proxy(Interfa</b>
2	WiperControl_FlatView		P_Debug	P Port	Debug_SRI	true	false
3			R_Torque	R Port	Torque_SRI	true	false
4		CPT_WiperControl_100us	R_Current	R Port	Current_SRI	true	false
5		CPT_WiperControl_2ms	P_Current	P Port	Current_SRI	true	false
6			P_Debug	P Port	Debug_SRI	true	false
7			R_Torque	R Port	Torque_SRI	true	false
8	WiperControl_SystemComposition	CPT_Debug	P_Torque	P Port	Torque_SRI	true	false
9			R_Debug	R Port	Debug_SRI	true	false
10		CPT_WiperControl_100us	R_Current	R Port	Current_SRI	true	false
11		CPT_WiperControl_2ms	P_Current	P Port	Current_SRI	true	false
12			P_Debug	P Port	Debug_SRI	true	false
13							
14							

• Connectors

	A	B	C	D	E	F
1	<b>Composition</b>	<b>Component</b>	<b>Connector</b>	<b>ConnectorType</b>	<b>Port</b>	<b>Ir</b>
2	WiperControl_FlatView	CPT_WiperControl_2ms	DelegationSwConnector_0	Delegation Connector	P_Debug	D
3		CPT_WiperControl_2ms	DelegationSwConnector_1	Delegation Connector	R_Torque	T
4		CPT_WiperControl_2ms	AssemblySwConnector_0	Assembly Connector	P_Current	C
5	WiperControl_SystemComposition	CPT_WiperControl_2ms	AssemblySwConnector_0	Assembly Connector	P_Debug	D
6		CPT_Debug	AssemblySwConnector_1	Assembly Connector	P_Torque	T
7		CPT_WiperControl_2ms	AssemblySwConnector_2	Assembly Connector	P_Current	C
8						
9						
10						
11						
12						
13						
14						

- Datatype Summary

	A	B	C	D	E	F	G	H	I
1									
2	Project	InterECU_4x							
3	Date	02/11/17 03:22:03 PM							
4	Application DataTypes	4							
5	Implementation DataTypes	14							
6	Base Types	9							
7									
8									
9									
10									
11									
12									
13									
14									
15									

- Datatype Overview

	A	B	C	D	E	F
1	ApplicationDataType	ImplementationDataType	BaseType	DatatypeMappingSet	Component	
2	Appl_SINT16	Impl_SINT16	sint16	DTMS_Debug	Debug	
3	Appl_SINT32	Impl_SINT32	sint32	DTMS_Debug	Debug	
4	Appl_SINT8	Impl_SINT8	sint8	DTMS_Debug	Debug	
5	Appl_UINT16	Impl_UINT16	uint16	DTMS_Debug	Debug	
6	Appl_SINT8	Impl_SINT8	sint8	DTMS_WiperControl_100us	WiperControl_100us	
7	Appl_UINT16	Impl_UINT16	uint16	DTMS_WiperControl_2ms	WiperControl_2ms	
8	Appl_SINT32	Impl_SINT32	sint32	DTMS_WiperControl_2ms	WiperControl_2ms	
9	Appl_SINT16	Impl_SINT16	sint16	DTMS_WiperControl_2ms	WiperControl_2ms	
10	Appl_SINT8	Impl_SINT8	sint8	DTMS_WiperControl_2ms	WiperControl_2ms	
11						
12						
13						

- Application Types

	A	B	C	D	E	F	G
1	ApplicationDataType	Category	CompuMethod	DataConstr	SwImplPolicy	SwCalibrationAccess	Component
2	Appl_SINT16	VALUE				NOT-ACCESSIBLE	WiperControl_2ms
3	Appl_SINT32	VALUE				NOT-ACCESSIBLE	WiperControl_2ms
4	Appl_SINT8	VALUE				NOT-ACCESSIBLE	WiperControl_2ms
5	Appl_UINT16	VALUE				NOT-ACCESSIBLE	WiperControl_2ms
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							



• Implementation Types

	A	B	C	D	E	F
1	ImplementationDataType	Category	CompuMethod	DataConstr	SwImplPolicy	SwCalibrationAccess
2	Impl_SINT16	TYPE_REFERENCE				
3	Impl_SINT32	TYPE_REFERENCE				
4	Impl_SINT8	TYPE_REFERENCE				
5	Impl_UINT16	TYPE_REFERENCE				
6	Impl_UINT32	TYPE_REFERENCE				
7	boolean	VALUE		DataConstr_boolean		
8	float32	VALUE				
9	float64	VALUE				
10	sint16	VALUE		DataConstr_sint16		
11	sint32	VALUE		DataConstr_sint32		
12	sint8	VALUE		DataConstr_sint8		

• Platform Types

	A	B	C	D	E	F	G	H	I	J
1	PlatformType	Type								
2	boolean	ImplementationDataType								
3	float32	ImplementationDataType								
4	float64	ImplementationDataType								
5	sint16	ImplementationDataType								
6	sint32	ImplementationDataType								
7	sint8	ImplementationDataType								
8	uint16	ImplementationDataType								
9	uint32	ImplementationDataType								
10	uint8	ImplementationDataType								
11	boolean	SwBaseType								
12	float32	SwBaseType								

• Base Types

	A	B	C	D	E	F	G	H	I
1	BaseType	BaseTypeSize	BaseTypeEncoding	ByteOrder	MemAlignment	NativeDeclaration			
2	boolean	2C	2C		0				
3	float32	IEEE754	IEEE754		0				
4	float64	IEEE754	IEEE754		0				
5	sint16	2C	2C		0				
6	sint32	2C	2C		0				
7	sint8	2C	2C		0				
8	uint16	NONE	NONE		0				
9	uint32	NONE	NONE		0				
10	uint8	NONE	NONE		0				

• Ecu Extract Summary

	A	B	C	D	E	F	G
1							
2	Project	InterECU_4x					
3	Date	02/11/17 03:22:03 PM					
4							
5							
6							
7	EcuInstance	Componentprototypes in Flatview	FlatInstanceDescriptors	DataMappings			
8	WiperControl	2	7	4			
9							
10							
11							
12							
13							
14							
15							

• Datamappings

	A	B	C	D	E	F
1	<b>Datamapping</b>	<b>SystemSignal</b>	<b>DataElement</b>	<b>Port</b>	<b>ComponentPrototype</b>	
2	SenderReceiverToSignalMapping	Sig_Debug_SINT8	DEP_Debug_SINT8	P_Debug	CPT_WiperControl_FlatView	
3	SenderReceiverToSignalMapping	Sig_Debug_SINT16	DEP_Debug_SINT16	P_Debug	CPT_WiperControl_FlatView	
4	SenderReceiverToSignalMapping	Sig_Torque	DEP_Torque	R_Torque	CPT_WiperControl_FlatView	
5	SenderReceiverToSignalMapping	Sig_Debug_SINT32	DEP_Debug_SINT32	P_Debug	CPT_WiperControl_FlatView	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

• FlatMap

	A	B	C	D	E
1	<b>EcuInstance</b>	<b>FlatInstanceDescriptor</b>	<b>Ecu Extract Target</b>	<b>Upstream Target</b>	<b>Target Type</b>
2	WiperControl	CPT_WiperControl_100us	CPT_WiperControl_100us	CPT_WiperControl_100us	SwComponentPrototype
3	WiperControl	CPT_WiperControl_2ms	CPT_WiperControl_2ms	CPT_WiperControl_2ms	SwComponentPrototype
4	WiperControl	DEP_Current	DEP_Current	DEP_Current	VariableDataPrototype
5	WiperControl	DEP_Debug_SINT8	DEP_Debug_SINT8	DEP_Debug_SINT8	VariableDataPrototype
6	WiperControl	DEP_Debug_SINT16	DEP_Debug_SINT16	DEP_Debug_SINT16	VariableDataPrototype
7	WiperControl	DEP_Debug_SINT32	DEP_Debug_SINT32	DEP_Debug_SINT32	VariableDataPrototype
8	WiperControl	DEP_Torque	DEP_Torque	DEP_Torque	VariableDataPrototype
9					
10					
11					
12					
13					
14					

- FlatView

	A	B	C	D	E	F	G	H
1	<b>Composition</b>	<b>ComponentPrototype</b>	<b>Port</b>	<b>PortInterface</b>	<b>PortType</b>			
2	WiperControl_FlatView		P_Debug		P_Port			
3	WiperControl_FlatView		R_Torque		R_Port			
4	WiperControl_FlatView	CPT_WiperControl_100us	R_Current		R_Port			
5	WiperControl_FlatView	CPT_WiperControl_2ms	P_Current		P_Port			
6	WiperControl_FlatView	CPT_WiperControl_2ms	P_Debug		P_Port			
7	WiperControl_FlatView	CPT_WiperControl_2ms	R_Torque		R_Port			
8								
9								
10								
11								
12								
13								
14								



### Do you still have questions?

- You will find further FAQ here: [www.etas.com/en/faq](http://www.etas.com/en/faq)
- Please feel free to contact our Support Center, if you have further questions.
- Here you can find all information: <http://www.etas.com/en/hotlines.php>

This information (here referred to as „FAQ“) is provided without any (express or implied) warranty, guarantee or commitment regarding completeness or accuracy. Except in cases of wilful damage, ETAS shall not be liable for losses and damages which may occur or result from the use of this information (including indirect, special or consequential damages).