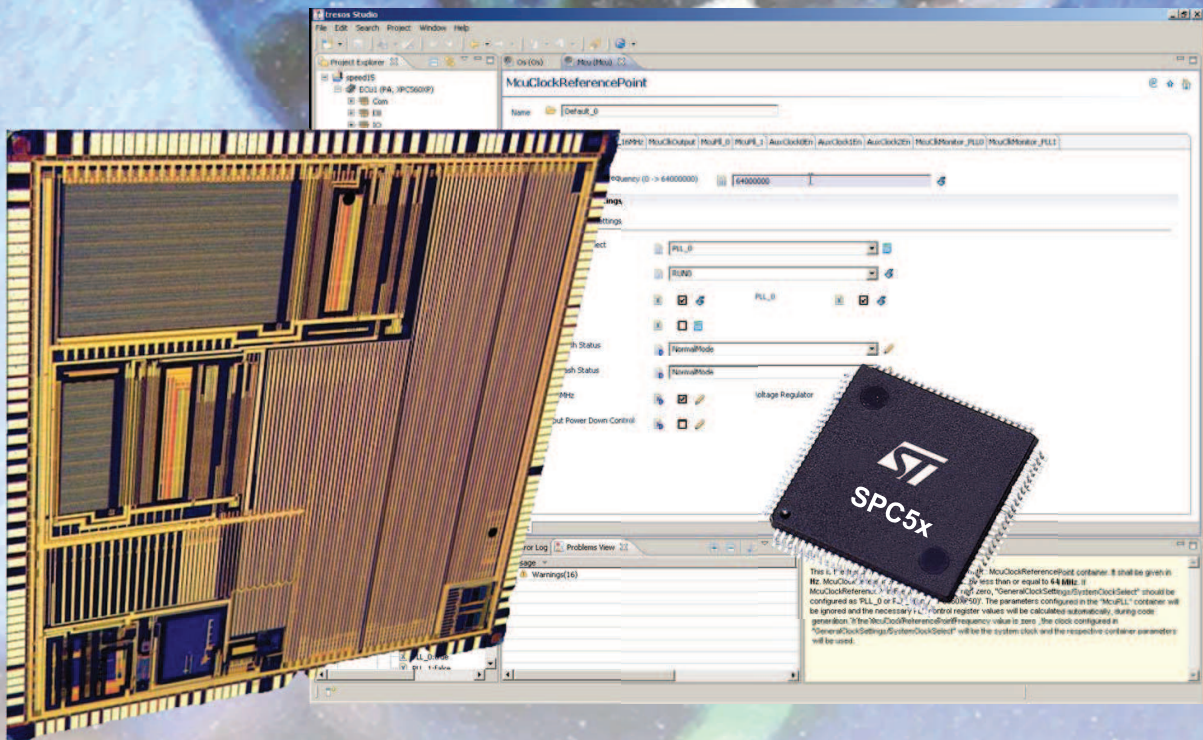




Automotive Basic Software Components for SPC5x microcontroller

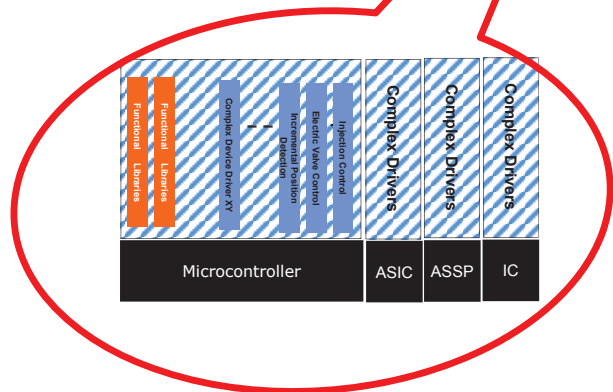
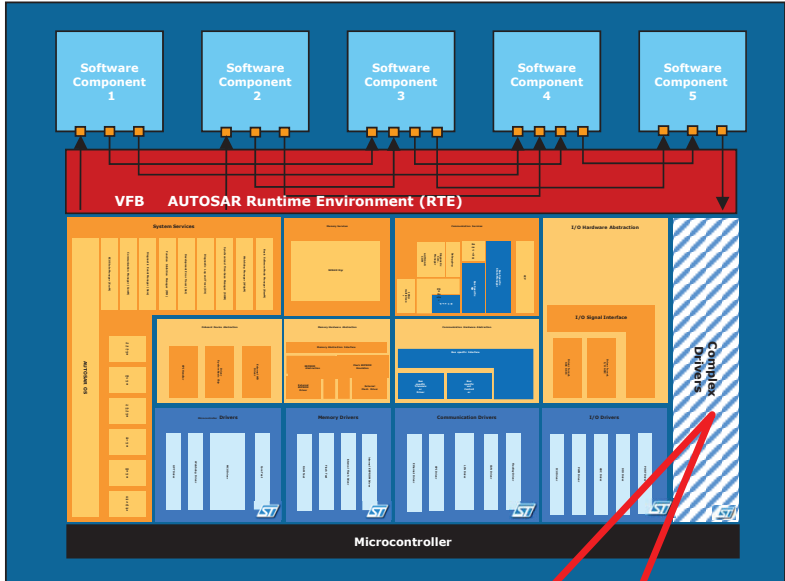


STMicroelectronics as AUTOSAR Premium Member is committed to support the development of standardized software infrastructure for automotive applications.

The ST Microelectronics automotive software development team is focused to provide optimized MCAL components to reach highest possible performance with lowest memory footprints. In cooperation projects with independent 3rd party software vendors ST guarantees the best fitting implementation into established development environments.

Special tailored license packages for development and production purposes are available to fulfill customer requirements for challenging technical and economical solutions

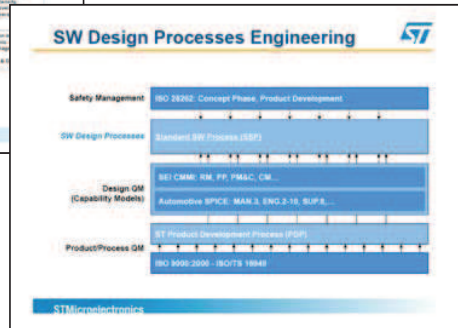
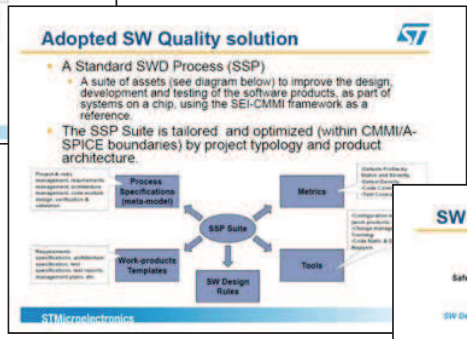
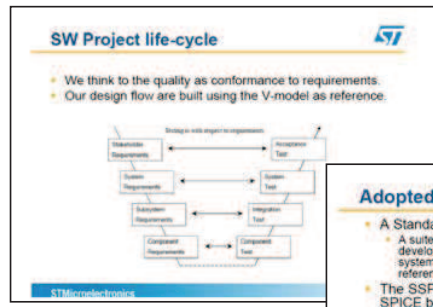
Dedicated software application engineers will support customer projects with trainings, hotline support and software oriented on-site activities.



In addition to the standard content AUTOSAR compliant 'ComplexDevice Driver' will be available to support non-standard microcontroller peripherals as well as external STMicroelectronics automotive ASICs and ASSPs.

The STMicroelectronics SW offer is completed with libraries to support standard functionalities on SPC5xx microcontroller

SW Quality Approach



ST SW Development is fulfilling **CMMI flow** and is **Spice level3** certified by one of our major customers

ST AUTOSAR Starter Kit 1

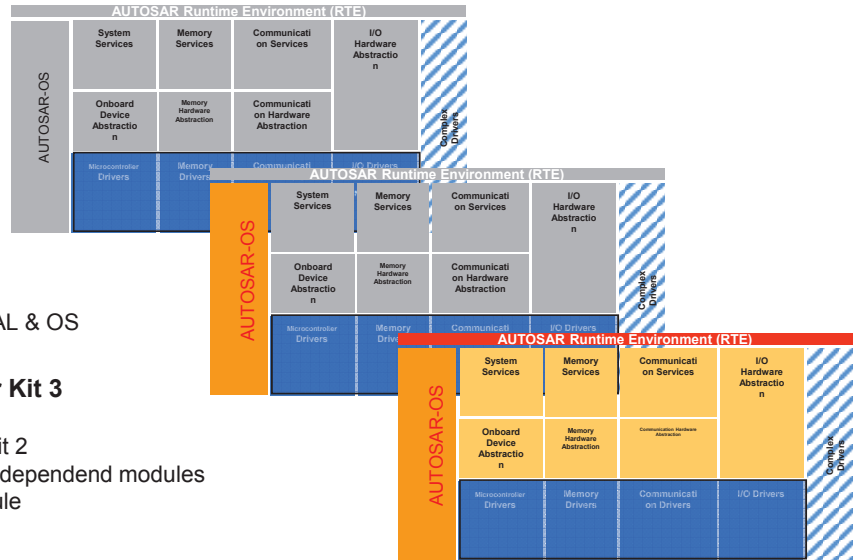
- all MCAL components for selected Microcontroller
- EB Tresos studio basic for MCAL

ST AUTOSAR Starter Kit 2

- AUTOSAR Starter Kit 1
- AUTOSAR OS SC1-4
- EB Tresos studio basic for MCAL & OS

ST AUTOSAR Starter Kit 3

- AUTOSAR Starter Kit 2
- all AUTOSAR HW independent modules
- RTE generator module
- EB Tresos studio

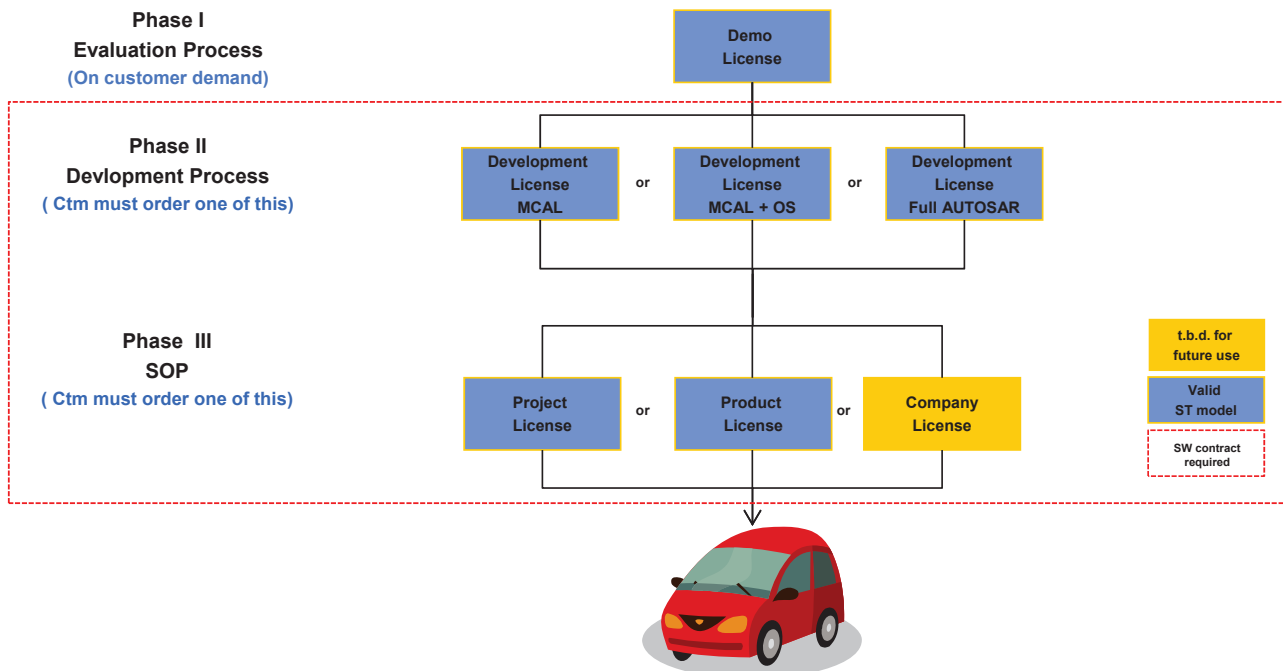


Elektrobit tresos studio

will be delivered as unified configuration tool for all ST Microelectronic AUTOSAR SW packages



SPC56/57 AUTOSAR development and license overview





SPC56/57 AUTOSAR development and license package overview

License Glossary

Development Licenses

- Valid for usage of specified and delivered Software Components (MCAL, OS, service stacks), tools and services for development time and prototype samples

Production Licenses (no deliverables, right to use only)

- Project License**
 - Valid for one ECU-project of Tier 1 (eg. Climate Control for [car manufacturer] [platform xy])
- Product License**
 - Valid for one Product of Tier 1 (eg. Climate control, seat ECU, ESP,...for several OEM or car platforms)
 - Or valid for one SPC5xxx in several applications
- Company License**
 - Valid for a Tier 1 worldwide

Development Package	Produkt	Features
Starter Kit 1 SW_ASR_S-KIT_1	<u>MCAL</u> - Tresos Configuration Tool for MCAL	Com: Can, Lin, Spi, Fr, (Eth) I/O: Port, Dio, Pwm, Icu, Adc Memory: Eep, Fls, MCDriver: Gpt, Mcu, Wdg
Starter Kit 2 SW_ASR_S-KIT_2	<u>MCAL / AUTOSAR OS</u> - MCAL - Autosar OS - Tresos Configuration Tool for MCAL+OS	MCAL: KIT_1 OS: AUTOSAR OS SC1-4*
Starter Kit 3 SW_ASR_S-KIT_3	<u>MCAL / AUTOSAR OS / Service Layer</u> - MCAL - Autosar OS - HW independent BSW services - Tresos Studio	MCAL: KIT_2 OS: KIT_2 Service: HW BSW modules
		*Scalability class 3&4 only for µC with MPU support

License type	MCAL 3.x MCAL 4.x	OS 3.x/OS 4.x (single core) OS 4.x (multi core)	BSW 3.x BSW 4.x
Demo License			
Development License			
Project License			
Product License			
Other license schemes on demand			