





Agenda

- Welcome and review of the agenda
- Actions from last week
- CMSIS-Zone flow example dual Cortex-M33 TZ-enabled
 - o 4 zones
- Common Description of HW
- Wrap Up

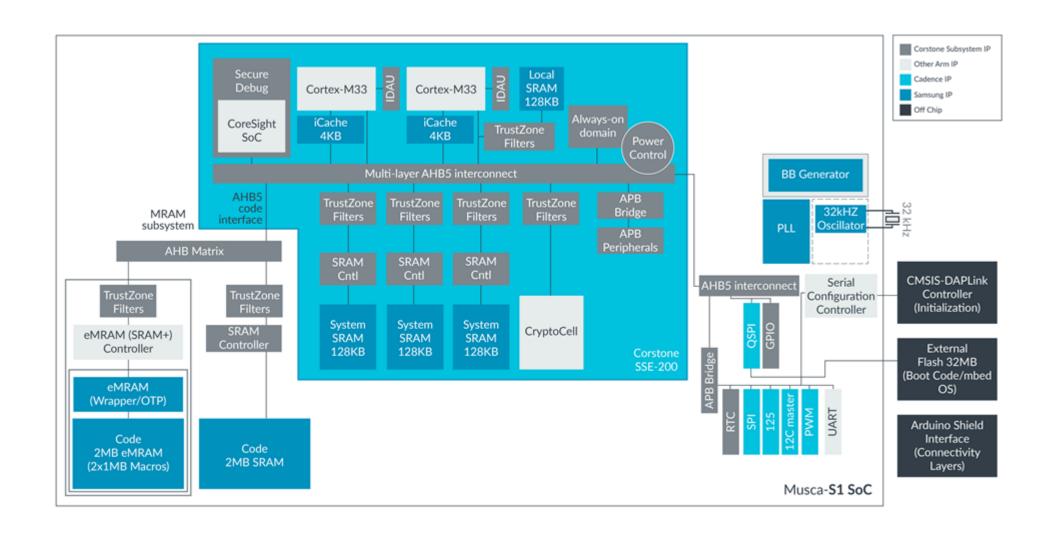


Actions from last week

- feedback for "Include Paths" Estimation
- feedback common framework
- feedback pack generator



CMSIS-Zone flow



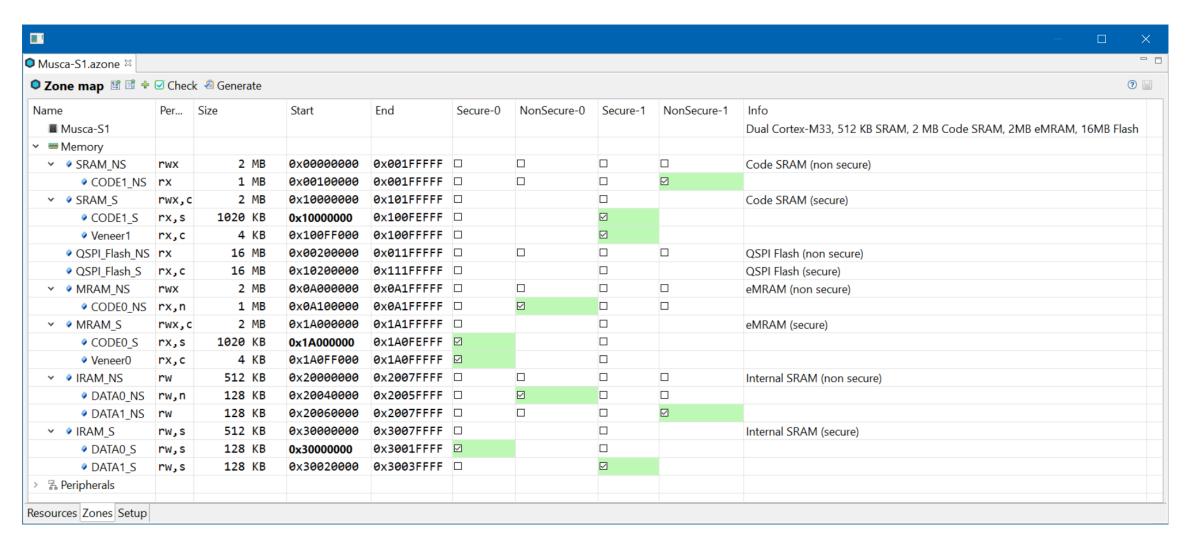


CMSIS-Zone flow

Non-secure		Secure		Description		
From	То	From	То	Size	Non-secure	Secure
0x0000_0000	0x001F_FFFF	0x1000_0000	0x101F_FFFF	2MB	Code SRAM	Code SRAM
0x0020_0000	0x021F_FFFF	0x1020_0000	0x121F_FFFF	32MB	External QSPI Flash	External QSPI Flash
0x0A00_0000	0x0A1F_FFFF	0x1A00_0000	0x1A1F_FFFF	2MB	eMRAM	eMRAM
0x2000_0000	0x2001_FFFF	0x3000_0000	0x3001_FFFF	128KB	Internal SRAM bank 0	Internal SRAM bank 0
0x2002_0000	0x2003_FFFF	0x3002_0000	0x3003_FFFF	128KB	Internal SRAM bank 1	Internal SRAM bank 1
0x2004_0000	0x2005_FFFF	0x3004_0000	0x3005_FFFF	128KB	Internal SRAM bank 2	Internal SRAM bank 2
0x2006_0000	0x2007_FFFF	0x3006_0000	0x3007_FFFF	128KB	Internal SRAM bank 3	Internal SRAM bank 3



CMSIS-Zone flow





Common Hardware Description(s)

- CMSIS-Pack specifies
 - Devices
 - Boards

No Modules

- CMSIS-SVD specifies access/debug of
 - Device Peripherals

No Board Peripherals

- CMSIS-Zone rzone specifies device resources
 - Memory + memory protection controller
 - Peripherals + security/privilege setup
 - Security Attribution Unit

Need gap analysis



Common Hardware Description(s) - (cont'd)

- What data is already being used today?
- What data is / will be required?
- What data is already available to and can be shared by Silicon Vendors?
- What data formats exist?
- What shall be the strategy under Open-CMSIS-Pack?
 - From experience we know that establishing descriptions takes some time
 - Agree format and scope
 - Conversion, Generation, Validation
 - Availability of data at scale



Wrap Up

Issue Overview

Next week: TBD

August:

- How to cover a "corner case": expressing dependencies on features #5
 - When Maxime is back from vacation
- Protecting CMSIS-Pack from malicious tempering (TBD)
- Kick-off development for project creation and maintenance MVP CMSIS-12

Next Meeting: Tuesday Aug. 3rd 2021, 15:00 – 16:00 (UK)





