

[AWR1843AOP] SPI MCAL Synch Transmit Support Request



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Topic: Spi_SyncTransmit() and Configuration questions.

Before this Topic, I solved the problem that happens when I execute Spi_SyncTransmit. The problem was that Job fail and Sequence Fail appears. I registered SPI ISR in my OS as Category2, that solved me the problem and enabled me to configure SPI operation on my system.

But There are problems that seems quite critical.

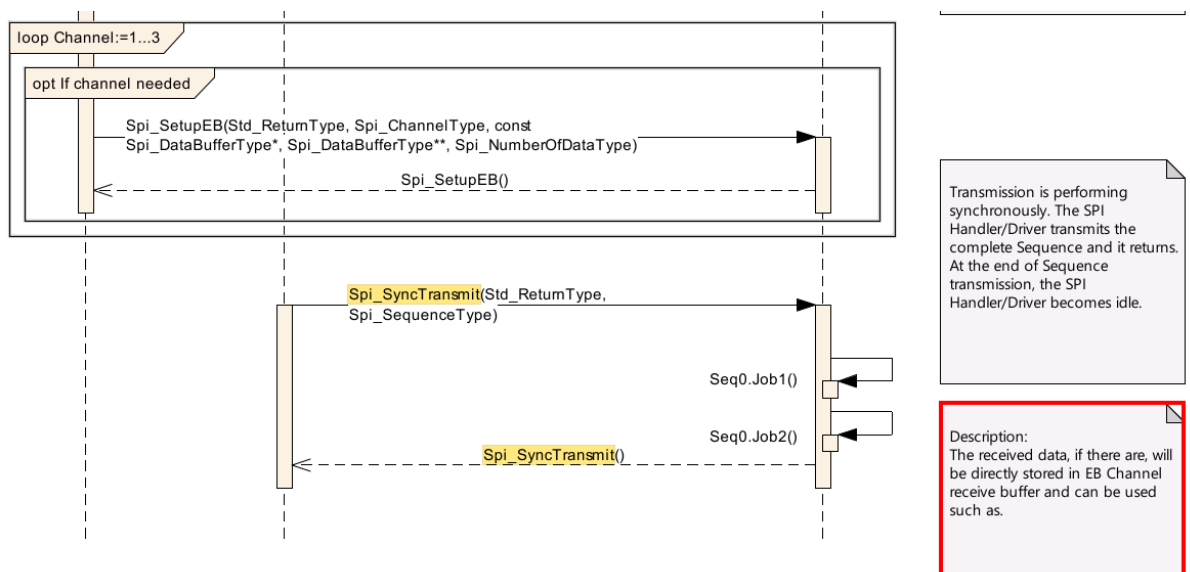
1. SyncTransmit

The method that I used to solve the problem before (Job Fail, Sequence Fail) was to register ISR to my OS. This seems to be Asynchronous methods, not Synchronous. <1.1> is description of Synchronous way. I want you to confirm that is it available to use synchronous method of SPI.

If you need to send fixed MCAL driver, please let me know.

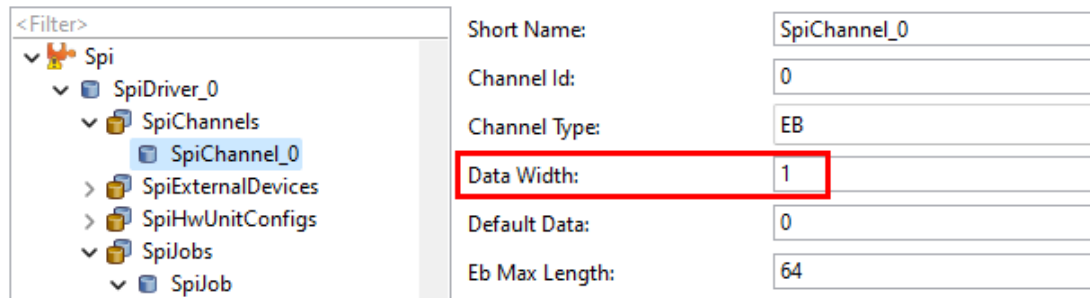
1.1 Synchronous Method of SPI

When Spi_SynchTransmit() is called, every job and Spi sequence need to be finished when it returns. If there is Rx Data, Data need to be saved in External Buffer. The problem is that TI MCAL SPI Driver saves Rx Data to External buffer in Interrupt Context. This doesn't satisfy the AUTOSAR SPI Specification.



2. External Buffer Data Type(Data Width)

- Configuration.



→ What kind of unit this configuration is? Is it Byte or Bit?

→ When I set this factor as 8(8bits, 1Byte), It doesn't work normally.

For example, when I send 0x21,0x07 2bytes command, In Data width 8, It sends 0x0021, 0x0007 total 4bytes.

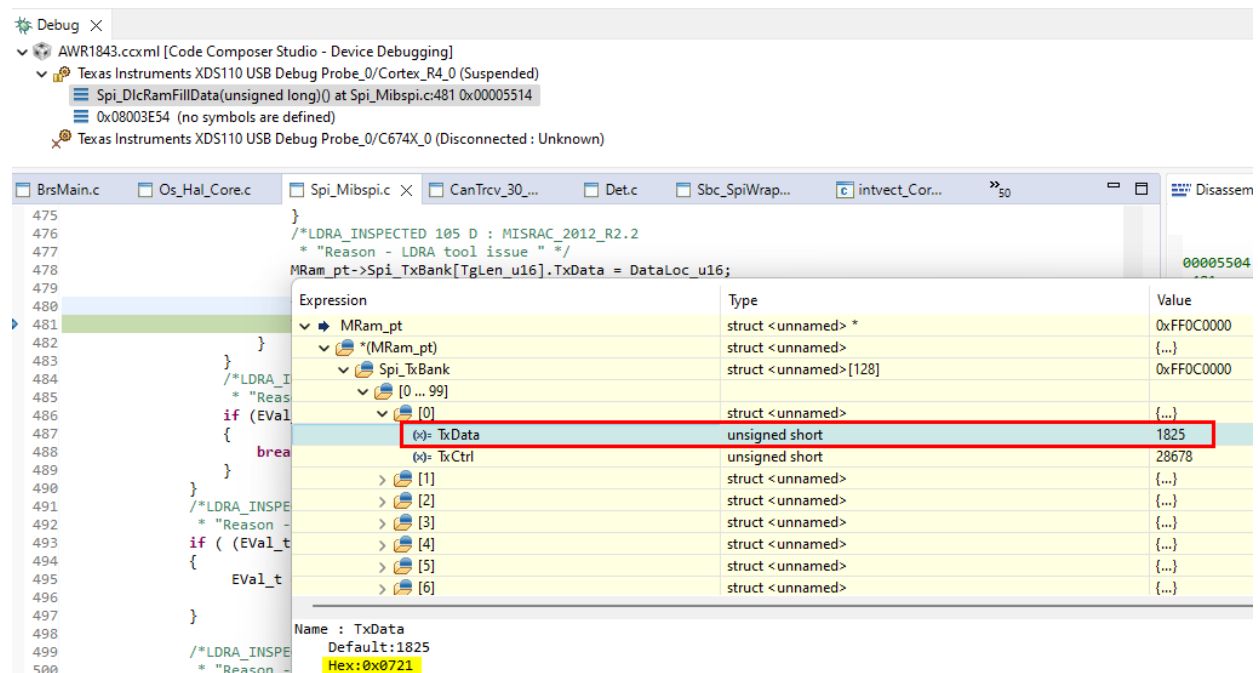
But when I set this factor as 1(1Byte) It works normally.

Please confirm it and let me know.

3. External Buffer Endian

In Mcal SPI Driver, when I write Buffer, it saves buffer to its' internal buffer in little endian way and transmit data. Because of this, I have to reschedule buffer that I intend to send (big endian).

Is it possible to use in big endian Method?



4. Conclusion.

Please check problems that I described. Please check problem1 first and confirm the rest.

Thank you.