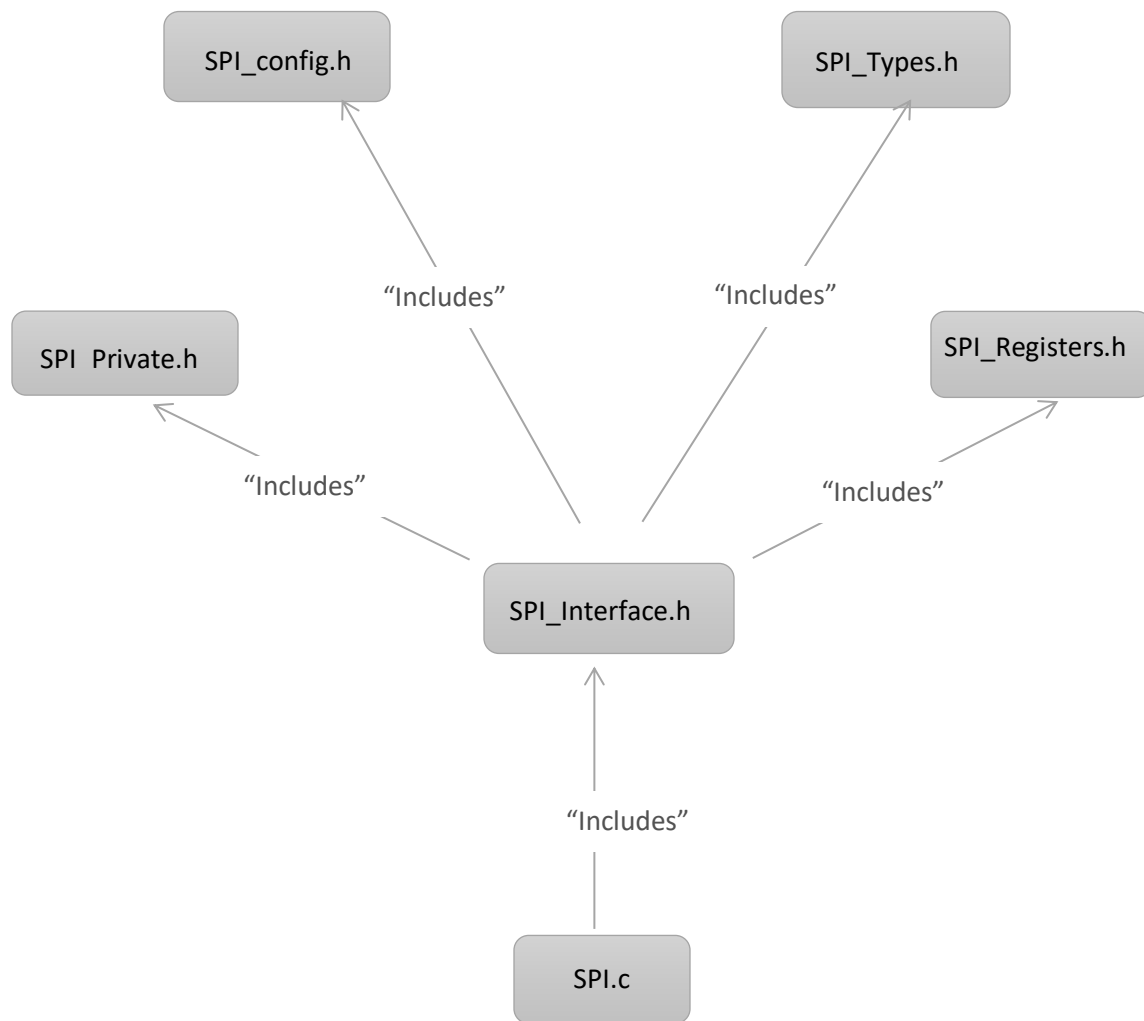


DD DOCUMENT OF THE SPI DRIVER

TEAM X



Type definitions:

1- [DD-SPI-12330]

Name	S_SPI
type	Structured data
Description	It contains data to be sent and recieved
Covered requirments	

Function definitions:

1- [DD_SPI_111]

Service name:	MCAL_SPI_vinitMaster
Syntax:	E_SPI_ERROR MCAL_SPI_vinitMaster(void)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	--
Return type:	Std_type(error)
Description:	It configures the microcontroller to be the SPI master
Covered requirements:	

2- [DD_SPI_112]

Service name:	MCAL_SPI_SPIvinitSlave
Syntax:	E_SPI_ERROR MCAL_SPI_vinitSlave(void)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--

Parameters (inout):	--
Return type:	stdType(error)
Description:	It configures the microcontroller to be a SPI slave
Covered requirements:	

3- [DD_SPI_113]

Service name:	E_SPI_ERROR MCAL_SPI_SendRx
Syntax:	E_SPI_ERROR MCAL_SPI_SendRx(unsigned char* data)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	Structured data
Return type:	Std_type(error)
Description:	It sends/recieves 1 byte of data through SPI communication
Covered requirements:	

4- [DD_SPI_114]

Service name:	MCAL_SPI_SlaveActivate
Syntax:	E_SPI_ERROR MCAL_SPI_SlaveActivate(void)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	--
Return type:	stdType(error)
Description:	It enables the slave to send data
Covered requirements:	

5- [DD_SPI_114]

Service name:	MCAL_SPI_MasterString
Syntax:	E_SPI_ERROR MCAL_SPI_MasterString(unsigned char* dataPtr)
Sync/Async:	Synchronous
Re-entrancy:	Re-entrant
Parameters (in):	--
Parameters (out):	--
Parameters (inout):	Structured data
Return type:	stdType(error)
Description:	It sends string of data through SPI communication
Covered requirements:	