CMSIS-OS Platform Default Port

This folder provides a default implementation for CMSIS-OS platform related XF classes. You can use these classes to construct a CMSIS-OS based XF.

If these classes do not suit your needs, they can be reimplemented for your platform. Create an additional folder in the 'port' folder and implement there the classes you need for your platform.

Available Default CMSIS-OS Port Classes

Class name	File location	Define to set
XFMutexDefault	xf/port/default-cmsis-os/mutex-default.cpp	USE_XF_MUTEX_DEFAULT_CMSIS_OS_IMPLEMENTATION
XFThreadDefault	xf/port/default-cmsis-os/thread-default.cpp	USE_XF_THREAD_DEFAULT_CMSIS_OS_IMPLEMENTATION

If you need more information about the classes mentioned above, please have a look into their header files and the doxygen comments in code.

Example *config/xf-config.h* File

Following you will find an example giving you a basic idea which define to set in the application specific *config/xf-config.h* file.

The *Stm32Cube CMSIS FreeRTOS* port uses these classes:

```
// Defines to set to use the Stm32Cube CMSIS FreeRTOS port
#define USE_XF_DISPATCHER_ACTIVE_DEFAULT_IMPLEMENTATION                     1
#define USE_XF_MUTEX_DEFAULT_CMSIS_OS_IMPLEMENTATION                        1
#define USE_XF_THREAD_DEFAULT_CMSIS_OS_IMPLEMENTATION                       1
#define USE_XF_PORT_STM32CUBE_CMSIS_FREERTOS_RESOURCE_FACTORY_IMPLEMENTATION 1
#define USE_XF_PORT_STM32CUBE_CMSIS_FREERTOS_TIMEOUTMANAGER_IMPLEMENTATION  1
#define USE_XF_PORT_STM32CUBE_CMSIS_FREERTOS_EVENT_QUEUE_IMPLEMENTATION     1
#define USE_XF_PORT_STM32CUBE_CMSIS_FREERTOS_THREAD_IMPLEMENTATION          1

#include "stm32cube-cmsis-freertos/eventqueue.h"
```