

XF Common Port

This folder provides common implementations for some platform independent XF classes. You can use these classes to construct the XF needed.

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 Common Port Classes

Class name	File location	Define to set
<code>XFTimeoutManager</code>	<code>xf/port/common/timeoutmanager.cpp</code>	<code>USE_XF_COMMON_TIMEOUTMANAGER_CLASS</code>
<code>XFDispatcher</code>	<code>xf/port/common/dispatcher.cpp</code>	<code>USE_XF_COMMON_DISPATCHER_CLASS</code>

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

Platform Dependend Common Port Classes

In the following folders you can pick some platform dependend port classes:

Platform	Folder
IDF-QT	idf-qt
IDF-STM32	idf-stm32

Example *config/xf-config.h* File

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

The *IDF Stm32* port uses the following defines:

```
// Defines used by the IDF STM32 port
#define USE_XF_COMMON_TIMEOUTMANAGER_CLASS 1
#define USE_XF_COMMON_DISPATCHER_CLASS 1
#define USE_XF_IDF_STM32_XF_CLASS 1
#define USE_XF_IDF_STM32_EVENT_QUEUE_CLASS 1
#define USE_XF_IDF_STM32_MUTEX_CLASS 1

#include "idf-stm32/eventqueue.h"
```

Note:

Here is also a good place to indicate which `EventQueue` class the XF should use.

If you want to build an XF on Windows, macOS or Linux, use the *IDF Qt* port. Following defines need to be set in the application specific *config/xf-config.h* file:

```
// Defines used by the IDF Qt port
#define USE_XF_COMMON_TIMEOUTMANAGER_CLASS 1
#define USE_XF_COMMON_DISPATCHER_CLASS 1
#define USE_XF_IDF_QT_XF_CLASS 1
#define USE_XF_IDF_QT_EVENT_QUEUE_CLASS 1
#define USE_XF_IDF_QT_MUTEX_CLASS 1

#include "idf-qt/eventqueue.h"
```