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9.20 WebsocketServer.cpp	

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Namespace Index

3.1 Namespace List

Here is a list of all namespaces with brief descriptions:	
spdlog	
yaodaq	

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Hierarchical Index

4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:	
yaodaq::ldentifier	. 21
yaodaq::LoggerHandler	. 22
ix::WebSocket	
yaodaq::WebsocketClient	24
ix::WebSocketServer	
yaodaq::WebsocketServer	25

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Class Index

5.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:	
yaodaq::ldentifier	21
yaodaq::LoggerHandler	22
yaodaq::WebsocketClient	24
vaodag: WebsocketServer	25

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File Index

6.1 File List

Here is a list of all files with brief yaodaq/Class.hpp		•															
yaodag/Identifier.hpp																	
yaodaq/LoggerHandler.hpp																	
yaodaq/WebsocketClient.hpp																	
yaodaq/WebsocketServer.hpp)																
yaodaq/ldentifier.cpp																	
yaodaq/LoggerHandler.cpp																	
yaodaq/WebsocketClient.cpp																	
yaodaq/WebsocketServer.cpg)															 	

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Namespace Documentation

7.1 spdlog Namespace Reference

Typedefs

using sink_ptr = std::shared_ptr< spdlog::sinks::sink >

7.1.1 Detailed Description

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7.1.2 Typedef Documentation

7.1.2.1 sink_ptr

using spdlog::sink_ptr = typedef std::shared_ptr<spdlog::sinks::sink>
Definition at line 15 of file LoggerHandler.hpp.

7.2 yaodaq Namespace Reference

Classes

- class Identifier
- · class LoggerHandler
- · class WebsocketClient
- · class WebsocketServer

Enumerations

```
    enum class Class: std::int_least16_t {
        Unknown = -1, Module = 0, Browser = 100, WebsocketServer = Module + 1,
        WebsocketClient = Module + 2 }
```

7.2.1 Detailed Description

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7.2.2 Enumeration Type Documentation

7.2.2.1 Class

```
enum class yaodaq::Class : std::int_least16_t [strong]
```

Enumerator

Unknown	
Module	
Browser	
WebsocketServer	
WebsocketClient	

```
Definition at line 13 of file Class.hpp. 00014 { 00015 Unknown = -1,
00014 {
00015   Unknown = -1,
00016   Module = 0,
00017   Browser = 100,
00018
00019 WebsocketServer = Module + 1,
00020 WebsocketClient = Module + 2,
00021 };
```

Class Documentation

8.1 yaodaq::Identifier Class Reference

```
#include <yaodaq/Identifier.hpp>
```

Public Member Functions

- Identifier ()=default
- Identifier (const Class &aClass, const std::string &type, const std::string &name)
- std::string getClass () const
- std::string getType () const
- std::string getName () const
- Class getClassId () const
- std::string get () const

8.1.1 Detailed Description

Definition at line 15 of file Identifier.hpp.

8.1.2 Constructor & Destructor Documentation

8.1.2.1 Identifier() [1/2]

```
yaodaq::Identifier::Identifier ( ) [default]
```

8.1.2.2 Identifier() [2/2]

8.1.3 Member Function Documentation

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8.1.3.1 get()

```
std::string yaodaq::Identifier::get ( ) const
Definition at line 26 of file Identifier.cpp.
00026 { return fmt::format( "{0}/{1}/{2}", getClass(), getType(), getName() ); }
8.1.3.2 getClass()
std::string yaodaq::Identifier::getClass ( ) const
Definition at line 18 of file Identifier.cpp.
00018 { return std::string( magic_enum::enum_name( m_Class ) ); }
8.1.3.3 getClassId()
Class yaodaq::Identifier::getClassId ( ) const
Definition at line 24 of file Identifier.cpp.
00024 { return m_Class; }
8.1.3.4 getName()
std::string yaodaq::Identifier::getName ( ) const
Definition at line 22 of file Identifier.cpp.
00022 { return m_Name; }
8.1.3.5 getType()
```

```
std::string yaodaq::Identifier::getType ( ) const
Definition at line 20 of file Identifier.cpp.
00020 { return m_Type; }
```

The documentation for this class was generated from the following files:

- yaodaq/Identifier.hpp
- · yaodaq/Identifier.cpp

8.2 yaodaq::LoggerHandler Class Reference

#include <yaodaq/LoggerHandler.hpp>

Public Types

```
    enum class Verbosity {
        Off , Trace , Debug , Info ,
        Warn , Error , Critical }
```

Public Member Functions

- LoggerHandler ()
- LoggerHandler (const std::string &)
- ∼LoggerHandler ()
- void setVerbosity (const Verbosity &verbosity)
- std::shared ptr< spdlog::logger > logger ()
- void addSink (const spdlog::sink ptr &)
- void clearSinks ()

8.2.1 Detailed Description

Definition at line 21 of file LoggerHandler.hpp.

8.2.2 Member Enumeration Documentation

8.2.2.1 Verbosity

```
enum class yaodaq::LoggerHandler::Verbosity [strong]
```

Enumerator

Off	
Trace	
Debug	
Info	
Warn	
Error	
Critical	

Definition at line 24 of file LoggerHandler.hpp.

```
00025 {
00026 Off,
00027 Trace,
00028 Debug,
00029 Info,
00030 Warn,
00031 Error,
00032 Critical
00033 };
```

8.2.3 Constructor & Destructor Documentation

8.2.3.1 LoggerHandler() [1/2]

```
yaodaq::LoggerHandler::LoggerHandler ( )
Definition at line 12 of file LoggerHandler.cpp.
00012 { init(); }
```

8.2.3.2 LoggerHandler() [2/2]

8.2.3.3 ~LoggerHandler()

```
yaodaq::LoggerHandler::~LoggerHandler ( )
Definition at line 16 of file LoggerHandler.cpp.
00016 {}
```

8.2.4 Member Function Documentation

8.2.4.1 addSink()

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```
Definition at line 41 of file LoggerHandler.cpp.
```

8.2.4.2 clearSinks()

8.2.4.3 logger()

```
std::shared_ptr< spdlog::logger > yaodaq::LoggerHandler::logger ( )
Definition at line 39 of file LoggerHandler.cpp.
00039 { return std::shared_ptr<spdlog::logger>( m_Logger ); }
```

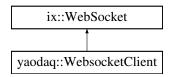
8.2.4.4 setVerbosity()

The documentation for this class was generated from the following files:

- yaodaq/LoggerHandler.hpp
- yaodaq/LoggerHandler.cpp

8.3 yaodaq::WebsocketClient Class Reference

#include <yaodaq/WebsocketClient.hpp>
Inheritance diagram for yaodaq::WebsocketClient:



Public Member Functions

- WebsocketClient (const std::string &name, const std::string &type)
- virtual ∼WebsocketClient ()

8.3.1 Detailed Description

Definition at line 16 of file WebsocketClient.hpp.

8.3.2 Constructor & Destructor Documentation

8.3.2.1 WebsocketClient()

8.3.2.2 ~WebsocketClient()

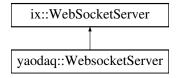
```
yaodaq::WebsocketClient::~WebsocketClient ( ) [virtual]
Definition at line 14 of file WebsocketClient.cpp.
00014 { ix::uninitNetSystem(); }
```

The documentation for this class was generated from the following files:

- yaodaq/WebsocketClient.hpp
- yaodaq/WebsocketClient.cpp

8.4 yaodaq::WebsocketServer Class Reference

#include <yaodaq/WebsocketServer.hpp>
Inheritance diagram for yaodaq::WebsocketServer:



Public Member Functions

- WebsocketServer (const std::string &name, const int &port=ix::SocketServer::kDefaultPort, const std::string &host=ix::SocketServer::kDefaultHost, const int &backlog=ix::SocketServer::kDefaultTcpBacklog, const std::size_t &maxConnections=ix::SocketServer::kDefaultMaxConnections, const int &handshakeTimeout Secs=ix::WebSocketServer::kDefaultHandShakeTimeoutSecs, const int &addressFamily=ix::SocketServer::kDefaultAddressFamily, const std::string &type="Default")
- virtual \sim WebsocketServer ()
- void loop ()

8.4.1 Detailed Description

Definition at line 16 of file WebsocketServer.hpp.

8.4.2 Constructor & Destructor Documentation

8.4.2.1 WebsocketServer()

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8.4.2.2 ~WebsocketServer()

```
yaodaq::WebsocketServer::~WebsocketServer ( ) [virtual]
Definition at line 18 of file WebsocketServer.cpp.
00018 { ix::uninitNetSystem(); }
```

8.4.3 Member Function Documentation

8.4.3.1 loop()

```
void yaodaq::WebsocketServer::loop ( )

Definition at line 20 of file WebsocketServer.cpp.
```

The documentation for this class was generated from the following files:

- yaodag/WebsocketServer.hpp
- yaodaq/WebsocketServer.cpp

File Documentation

- 9.1 docs/third party licenses.md File Reference
- 9.2 License.md File Reference
- 9.3 yaodaq/Class.hpp File Reference

```
#include <cstdint>
```

Namespaces

• namespace yaodaq

Enumerations

```
    enum class yaodaq::Class : std::int_least16_t {
    yaodaq::Unknown = -1 , yaodaq::Module = 0 , yaodaq::Browser = 100 , yaodaq::WebsocketServer = Module
    + 1 ,
    yaodaq::WebsocketClient = Module + 2 }
```

9.4 Class.hpp

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9.5 yaodaq/Identifier.hpp File Reference

```
#include "yaodaq/Class.hpp"
#include <string>
```

Classes

· class yaodaq::Identifier

Namespaces

· namespace yaodaq

9.6 Identifier.hpp

Go to the documentation of this file.

```
00001 #ifndef YAODAQ_IDENTIFIER_HPP 00002 #define YAODAQ_IDENTIFIER_HPP
00003
00008 #include "yaodaq/Class.hpp"
00009
00010 #include <string>
00011
00012 namespace yaodaq
00013 {
00014
00015 class Identifier
00016 {
00017 public:
O0018 Identifier() = default;
00019 Identifier( const Class& aClass, const std::string& type, const std::string& name );
00020 [[nodiscard]] std::string getClass() const;

00021 [[nodiscard]] std::string getType() const;

00022 [[nodiscard]] std::string getName() const;

00023 [[nodiscard]] Class getClassId() const;

00024 [[nodiscard]] std::string get() const;
00025
00026 private:
00027 Class m_Class{ Class::Unknown };
00028 std::string m_Type{ "Unknown" };
00029 std::string m_Name{ "Unknown" };
00030 };
00032 } // namespace yaodaq
00033
00034 #endif // YAODAQ_IDENTIFIER_HPP
```

9.7 yaodaq/LoggerHandler.hpp File Reference

```
#include <memory>
#include <spdlog/fwd.h>
#include <string>
#include <vector>
```

Classes

· class yaodaq::LoggerHandler

Namespaces

- namespace spdlog
- · namespace yaodaq

Typedefs

using spdlog::sink_ptr = std::shared_ptr< spdlog::sinks::sink >

9.8 LoggerHandler.hpp

Go to the documentation of this file.

```
00001 #ifndef YAODAQ_LOGGERHANDLEF
00002 #define YAODAQ_LOGGERHANDLER
00003
00008 #include <memory>
00009 #include <spdlog/fwd.h>
00010 #include <string>
00011 #include <vector>
00012
00013 namespace spdlog
00014 {
00015 using sink_ptr = std::shared_ptr<spdlog::sinks::sink>;
00016 }
00018 namespace yaodaq
00019 {
00020
00021 class LoggerHandler
00022 {
00023 public:
       enum class Verbosity
00025
         Off,
00026
00027
         Trace,
00028
         Debug,
00029
         Info,
         Warn,
00030
        Error,
Critical
00031
00032
00033
       };
00034
       LoggerHandler();
00035
       explicit LoggerHandler( const std::string& );
        ~LoggerHandler();
00037
       void
                                       setVerbosity( const Verbosity& verbosity );
00038
       std::shared_ptr<spdlog::logger> logger();
00039
       void
                                      addSink( const spdlog::sink_ptr& );
00040
       void
                                      clearSinks();
00041
00042 private:
00043
00044
       std::shared_ptr<spdlog::logger> m_Logger{ nullptr };
       00045
       std::string
00046
       Verbosity
                                      m_Verbosity{ Verbosity::Trace };
00047
       void
                                      init();
00048 };
00049
00050 } // namespace yaodaq
00051
00052 #endif
```

9.9 yaodaq/WebsocketClient.hpp File Reference

```
#include "ixwebsocket/IXWebSocket.h"
#include "yaodaq/Identifier.hpp"
#include <string>
```

Classes

· class yaodaq::WebsocketClient

Namespaces

· namespace yaodaq

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9.10 WebsocketClient.hpp

Go to the documentation of this file.

```
00001 #ifndef YAODAQ_WEBSOCKETCLIENT
00002 #define YAODAQ_WEBSOCKETCLIENT
00003
00008 #include "ixwebsocket/IXWebSocket.h"
00009 #include "yaodaq/Identifier.hpp"
00010
00011 #include <string>
00012
00013 namespace yaodaq
00014 {
00015
00016 class WebsocketClient : public ix::WebSocket
00018 public:
      WebsocketClient( const std::string& name, const std::string& type );
00019
00020
       virtual ~WebsocketClient();
00021
00022 private:
       Identifier m_Identifier;
00024 };
00025
00026 } // namespace yaodaq
00027
00028 #endif
```

9.11 yaodaq/WebsocketServer.hpp File Reference

```
#include "ixwebsocket/IXWebSocketServer.h"
#include "yaodaq/Identifier.hpp"
#include <string>
```

Classes

· class yaodaq::WebsocketServer

Namespaces

· namespace yaodaq

9.12 WebsocketServer.hpp

```
00001 #ifndef YAODAQ_WEBSOCKETSERVER
00002 #define YAODAQ_WEBSOCKETSERVER
00003
00008 #include "ixwebsocket/IXWebSocketServer.h"
00009 #include "yaodaq/Identifier.hpp"
00010
00011 #include <string>
00012
00013 namespace yaodaq
00014 {
00015
00016 class WebsocketServer : public ix::WebSocketServer
00017 {
00018 public:
00019
       explicit WebsocketServer( const std::string@ name, const int@ port = ix::SocketServer::kDefaultPort,
       const std::string& host = ix::SocketServer::kDefaultHost, const int& backlog =
       ix::SocketServer::kDefaultTcpBacklog,
00020
                                  const std::size t& maxConnections =
       ix::SocketServer::kDefaultMaxConnections, const int& handshakeTimeoutSecs
       ix::WebSocketServer::kDefaultHandShakeTimeoutSecs, const int& addressFamily =
       ix::SocketServer::kDefaultAddressFamily,
00021
                                  const std::string& type = "Default" );
       virtual ~WebsocketServer();
00022
00023
       void loop();
00024
00025 private:
00026
      Identifier m_Identifier;
00027 };
```

```
00028
00029 } // namespace yaodaq
00030
00031 #endif // YAODAQ_WEBSOCKETSERVER
```

9.13 yaodaq/Identifier.cpp File Reference

```
#include "yaodaq/Identifier.hpp"
#include "yaodaq/Class.hpp"
#include <fmt/color.h>
#include <magic_enum.hpp>
#include <string>
```

Namespaces

· namespace yaodaq

9.14 Identifier.cpp

```
Go to the documentation of this file.
```

```
00001
00005 #include "yaodaq/Identifier.hpp"
00006
00007 #include "yaodaq/Class.hpp"
80000
00009 #include <fmt/color.h>
00010 #include <magic_enum.hpp>
00011 #include <string>
00012
00013 namespace yaodaq
00014 {
00015
m_Class( aClass ), m_Type( type ), m_Name( name ) {}
00017
00016 Identifier::Identifier( const Class& aClass, const std::string& type, const std::string& name ) :
00018 std::string Identifier::getClass() const { return std::string( magic_enum::enum_name( m_Class ) ); }
00019
00020 std::string Identifier::getType() const { return m_Type; }
00021
00022 std::string Identifier::getName() const { return m_Name; }
00023
00024 Class Identifier::getClassId() const { return m_Class; }
00026 std::string Identifier::get() const { return fmt::format( "{0}/{1}/{2}", getClass(), getType(),
      getName() ); }
00027
00028 }; // namespace yaodaq
```

9.15 yaodaq/LoggerHandler.cpp File Reference

```
#include "yaodaq/LoggerHandler.hpp"
#include "spdlog/spdlog.h"
```

Namespaces

· namespace yaodaq

9.16 LoggerHandler.cpp

```
00001
00005 #include "yaodaq/LoggerHandler.hpp"
00006
00007 #include "spdlog/spdlog.h"
00008
```

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```
00009 namespace yaodaq
00011
00012 LoggerHandler::LoggerHandler() { init(); }
00013
00014 LoggerHandler::LoggerHandler( const std::string& name ) : m_Name( name ) { init(); }
00016 LoggerHandler::~LoggerHandler() {}
00017
00018 void LoggerHandler::setVerbosity( const Verbosity& verbosity))
00019 {
00020
       m_Verbosity = verbosity;
00021
        init();
00022 }
00023
00024 void LoggerHandler::init()
00025 {
        m_Logger = std::make_shared<spdlog::logger>( m_Name, std::begin( m_Sinks ), std::end( m_Sinks ) );
00026
        switch( m_Verbosity )
00028
00029
          case Verbosity::Off: m_Logger->set_level( spdlog::level::off ); break;
00030
          case Verbosity::Trace: m_Logger->set_level( spdlog::level::trace ); break;
00031
          case Verbosity::Debug: m_Logger->set_level( spdlog::level::debug ); break;
          case Verbosity::Info: m_Logger->set_level( spdlog::level::info ); break;
case Verbosity::Warn: m_Logger->set_level( spdlog::level::warn ); break;
00032
00033
          case Verbosity::Error: m_Logger->set_level( spdlog::level::err ); break;
00035
          case Verbosity::Critical: m_Logger->set_level( spdlog::level::critical ); break;
00036
00037 }
00038
00039 std::shared ptr<spdlog::logger> LoggerHandler::logger() { return std::shared ptr<spdlog::logger>(
      m Logger ); }
00040
00041 void LoggerHandler::addSink( const spdlog::sink_ptr& sink )
00042 {
00043
        m_Sinks.push_back( sink );
00044
        init();
00046
00047 void LoggerHandler::clearSinks()
00048 {
00049
        m Sinks.clear():
00050
        init();
00051 }
00052
00053 }
        // namespace yaodaq
```

9.17 yaodaq/WebsocketClient.cpp File Reference

```
#include "yaodaq/WebsocketClient.hpp"
#include "ixwebsocket/IXNetSystem.h"
```

Namespaces

· namespace yaodaq

9.18 WebsocketClient.cpp

9.19 yaodaq/WebsocketServer.cpp File Reference

```
#include "yaodaq/WebsocketServer.hpp"
#include "ixwebsocket/IXNetSystem.h"
```

Namespaces

· namespace yaodaq

9.20 WebsocketServer.cpp

```
00005 #include "yaodaq/WebsocketServer.hpp"
00006
00007 #include "ixwebsocket/IXNetSystem.h"
80000
00009 namespace yaodaq
00010 {
00011
00012 WebsocketServer::WebsocketServer( const std::string& name, const int& port, const std::string& host,
         const int& backlog, const std::size_t& maxConnections, const int& handshakeTimeoutSecs, const int& addressFamily, const std::string& type ):
    ix::WebSocketServer( port, host, backlog, maxConnections, handshakeTimeoutSecs, addressFamily ),
    m_Identifier( Class::WebSocketServer, type, name )
00013
00014 {
00015
           ix::initNetSystem();
00016 }
00017
00018 WebsocketServer::~WebsocketServer() { ix::uninitNetSystem(); }
00019
00020 void WebsocketServer::loop() {}
00021
00022 } // namespace yaodaq
```

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