ActiveSpaces C++ API

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ASApi::SharedPtr< tibasPersister >	
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## **Class Index**

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ASApi::PutOptions
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ASApi::SpaceRemoteMemberListener
ASApi::SpaceResult
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## Chapter 4

## **File Index**

### 4.1 File List

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AuthenticationInfo.cpp
AuthenticationInfo.h
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Browser.h
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CloseAction.cpp
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### **Chapter 5**

## **Namespace Documentation**

### 5.1 ASApi Namespace Reference

#### **Namespaces**

• namespace Common

#### Classes

- class Action
- class ActionResult
- class Admin
- class AlterAction
- class AuthenticationCallback
- class AuthenticationInfo
- class Browser
- class BrowserDef
- class CloseAction
- class EventBrowser
- class EventBrowserDef
- class EvictEvent
- class Exception
- class ExpireEvent
- class FieldDef
- class FieldDefList
- class Filter
- class GetOptions
- class IndexDef
- class Invocable
- class InvokeOptions
- class InvokeResult

- · class InvokeResultList
- class KeyDef
- class Listener
- class ListenerBase
- class ListenerDef
- class ListenerTemplate
- class LoadAction
- class LockOptions
- class Member
- class MemberDef
- class MemberInvocable
- class Metaspace
- class MetaspaceMemberListener
- class MetaspaceRemoteMemberListener
- class OpenAction
- class Persister
- class PutEvent
- class PutOp
- class PutOptions
- class ReadAction
- class RecoveryOptions
- class Result
- class ResultList
- class Router
- class SeedEvent
- class SharedPtr
- class Space
- class SpaceDef
- class SpaceDefListener
- class SpaceEvent
- class SpaceMemberListener
- class SpaceOptions
- class SpaceRemoteMemberListener
- class SpaceResult
- class SpaceResultHandler
- class SpaceResultList
- class SpaceStateListener
- class TakeEvent
- class TakeOp
- class TakeOptions
- class Tuple
- class Deleter
- class UnlockOptions
- class UnseedEvent
- class WriteAction
- class WriteOp

#### **Typedefs**

- typedef std::mutex Mutex
- typedef tibas\_status Status
- typedef tibas\_distributionScope DistributionScope
- typedef tibas\_timeScope TimeScope
- typedef tibas\_logLevel LogLevel
- typedef tibas\_indexType IndexType
- typedef tibas\_managementRole ManagementRole
- typedef tibas\_distributionRole DistributionRole
- typedef tibas\_browserType BrowserType
- typedef tibas spaceState SpaceState
- typedef tibas distributionPolicy DistributionPolicy
- typedef tibas\_persistenceType PersistenceType
- typedef tibas\_persistencePolicy PersistencePolicy
- typedef tibas\_evictionPolicy EvictionPolicy

#### **Functions**

- std::vector< std::string > asStringListToVector (const tibasStringList &stringList)
- SharedPtr< tibasTupleList > tuplesToAsTupleList (const std::vector< Tuple > &tuples)
- SharedPtr< tibasMemberList > membersToAsMemberList (const std::vector
   Member > &members, const Metaspace &metaspace)
- std::vector< Member > asMemberListToVector (tibasMemberList &memberList)

#### **5.1.1** Typedef Documentation

#### 5.1.1.1 typedef tibas\_browserType ASApi::BrowserType

Definition at line 23 of file Types.h.

#### 5.1.1.2 typedef tibas\_distributionPolicy ASApi::DistributionPolicy

Definition at line 27 of file Types.h.

#### ${\bf 5.1.1.3} \quad type def\ tibas\_distribution Role\ ASApi:: Distribution Role$

Definition at line 22 of file Types.h.

#### 5.1.1.4 typedef tibas\_distributionScope ASApi::DistributionScope

Definition at line 17 of file Types.h.

#### 5.1.1.5 typedef tibas\_evictionPolicy ASApi::EvictionPolicy

Definition at line 30 of file Types.h.

#### 5.1.1.6 typedef tibas\_indexType ASApi::IndexType

Definition at line 20 of file Types.h.

#### 5.1.1.7 typedef tibas\_logLevel ASApi::LogLevel

Definition at line 19 of file Types.h.

#### 5.1.1.8 typedef tibas\_managementRole ASApi::ManagementRole

Definition at line 21 of file Types.h.

#### 5.1.1.9 typedef std::mutex ASApi::Mutex

Definition at line 61 of file Mutex.h.

#### 5.1.1.10 typedef tibas\_persistencePolicy ASApi::PersistencePolicy

Definition at line 29 of file Types.h.

#### 5.1.1.11 typedef tibas\_persistenceType ASApi::PersistenceType

Definition at line 28 of file Types.h.

#### 5.1.1.12 typedef tibas\_spaceState ASApi::SpaceState

Definition at line 24 of file Types.h.

#### 5.1.1.13 typedef tibas\_status ASApi::Status

Definition at line 16 of file Types.h.

#### 5.1.1.14 typedef tibas\_timeScope ASApi::TimeScope

Definition at line 18 of file Types.h.

#### **5.1.2** Function Documentation

5.1.2.1 vector < Member > ASApi::asMemberListToVector (tibasMemberList & memberList)

Definition at line 58 of file Utils.cpp.

5.1.2.2 vector < string > ASApi::asStringListToVector (const tibasStringList & stringList)

Definition at line 9 of file Utils.cpp.

5.1.2.3 SharedPtr< tibasMemberList > ASApi::membersToAsMemberList (const std::vector< Member > & members, const Metaspace & metaspace)

Definition at line 41 of file Utils.cpp.

**5.1.2.4** SharedPtr< tibasTupleList > ASApi::tuplesToAsTupleList (const std::vector< Tuple > & tuples)

Definition at line 25 of file Utils.cpp.

### **5.2** ASApi::Common Namespace Reference

#### **Functions**

- void AS\_CPP\_API setLogLevel (const LogLevel &logLevel)
- void AS\_CPP\_API setSecurityLogLevel (const LogLevel &logLevel)
- LogLevel AS\_CPP\_API getLogLevel ()
- LogLevel AS\_CPP\_API getSecurityLogLevel ()
- void AS\_CPP\_API setFileLogging (const LogLevel &logLevel)
- void AS\_CPP\_API setFileLogging (const std::string &fileName, const LogLevel &logLevel)
- void AS\_CPP\_API setFileLogging (const std::string &logDir, const std::string &fileName, const LogLevel &logLevel)
- void AS\_CPP\_API setEventLogging (const std::string &fileName, const LogLevel &logLevel)
- Metaspace AS\_CPP\_API getMetaspace (const std::string &metaspaceName)
- Metaspace AS\_CPP\_API connectMetaspace (const std::string &metaspace-Name, const MemberDef &memberDef)
- std::vector< std::string > AS\_CPP\_API getMetaspaceNames ()
- void AS\_CPP\_API setInvocable (const std::string &alias, Invocable::Creator creator)
- void AS\_CPP\_API setInvocable (const std::string &alias, SharedPtr< Invocable > invocable)
- void AS\_CPP\_API setMemberInvocable (const std::string &alias, MemberInvocable::Creator creator)
- void AS\_CPP\_API setMemberInvocable (const std::string &alias, SharedPtr
   MemberInvocable > memberInvocable)
- std::vector< std::string > AS\_CPP\_API getInvocableAliases ()
- std::vector< std::string > AS\_CPP\_API getMemberInvocableAliases ()
- void AS\_CPP\_API removeInvocable (const std::string &alias)
- void AS\_CPP\_API removeMemberInvocable (const std::string &alias)

#### **5.2.1** Function Documentation

## 5.2.1.1 Metaspace ASApi::Common::connectMetaspace (const std::string & metaspaceName, const MemberDef & memberDef)

Definition at line 59 of file Common.cpp.

#### **5.2.1.2** vector< string > ASApi::Common::getInvocableAliases ()

Definition at line 97 of file Common.cpp.

#### 5.2.1.3 LogLevel ASApi::Common::getLogLevel ()

Definition at line 22 of file Common.cpp.

#### **5.2.1.4** vector < string > ASApi::Common::getMemberInvocableAliases ()

Definition at line 105 of file Common.cpp.

## 5.2.1.5 Metaspace ASApi::Common::getMetaspace (const std::string & metaspaceName)

Definition at line 51 of file Common.cpp.

#### 5.2.1.6 vector < string > ASApi::Common::getMetaspaceNames ()

Definition at line 65 of file Common.cpp.

#### 5.2.1.7 LogLevel ASApi::Common::getSecurityLogLevel ()

Definition at line 30 of file Common.cpp.

#### 5.2.1.8 void ASApi::Common::removeInvocable (const std::string & alias)

Definition at line 113 of file Common.cpp.

### 5.2.1.9 void ASApi::Common::removeMemberInvocable (const std::string & alias)

Definition at line 119 of file Common.cpp.

### 5.2.1.10 void ASApi::Common::setEventLogging (const std::string & fileName, const LogLevel & logLevel)

Definition at line 44 of file Common.cpp.

- 5.2.1.11 void AS\_CPP\_API ASApi::Common::setFileLogging (const std::string & logDir, const std::string & fileName, const LogLevel & logLevel)
- 5.2.1.12 void AS\_CPP\_API ASApi::Common::setFileLogging (const std::string & fileName, const LogLevel & logLevel)

#### 5.2.1.13 void ASApi::Common::setFileLogging (const LogLevel & logLevel)

Definition at line 38 of file Common.cpp.

### 5.2.1.14 void ASApi::Common::setInvocable (const std::string & alias, SharedPtr< Invocable > invocable)

Definition at line 79 of file Common.cpp.

### 5.2.1.15 void ASApi::Common::setInvocable (const std::string & alias, Invocable::Creator creator)

Definition at line 73 of file Common.cpp.

#### 5.2.1.16 void ASApi::Common::setLogLevel (const LogLevel & logLevel)

Definition at line 10 of file Common.cpp.

### 5.2.1.17 void ASApi::Common::setMemberInvocable (const std::string & alias, SharedPtr< MemberInvocable)

Definition at line 91 of file Common.cpp.

## 5.2.1.18 void ASApi::Common::setMemberInvocable (const std::string & alias, MemberInvocable::Creator creator)

Definition at line 85 of file Common.cpp.

### 5.2.1.19 void ASApi::Common::setSecurityLogLevel (const LogLevel & logLevel)

Definition at line 16 of file Common.cpp.

### Chapter 6

### **Class Documentation**

### 6.1 ASApi::Action Class Reference

#include <Action.h>

Inherited by ASApi::AlterAction, ASApi::CloseAction, ASApi::LoadAction, ASApi::OpenAction, ASApi::ReadAction, and ASApi::WriteAction.

#### **Public Member Functions**

- std::string getSpaceName () const
- std::string getMetaspaceName () const

#### **Protected Member Functions**

• Action (const tibasAction &action)

#### **Protected Attributes**

• const tibasAction & m\_action

#### **6.1.1 Detailed Description**

Definition at line 14 of file Action.h.

#### **6.1.2** Constructor & Destructor Documentation

#### 6.1.2.1 Action::Action (const tibasAction & action) [protected]

Definition at line 9 of file Action.cpp.

#### **6.1.3** Member Function Documentation

#### **6.1.3.1** string Action::getMetaspaceName () const

Definition at line 24 of file Action.cpp.

#### 6.1.3.2 string Action::getSpaceName () const

Definition at line 16 of file Action.cpp.

#### **6.1.4** Member Data Documentation

#### 6.1.4.1 const tibasAction& ASApi::Action::m\_action [protected]

Definition at line 23 of file Action.h.

- Action.h
- Action.cpp

### 6.2 ASApi::ActionResult Class Reference

#include <ActionResult.h>

#### **Public Member Functions**

- ActionResult (tibasActionResult &actionResult)
- ActionResult & setFailed ()
- ActionResult & setFailed (const Status &status)
- Status getStatus () const
- ActionResult & setTuple (const Tuple &tuple)
- Tuple getTuple () const

#### **6.2.1 Detailed Description**

Definition at line 12 of file ActionResult.h.

#### **6.2.2** Constructor & Destructor Documentation

## 6.2.2.1 ActionResult::ActionResult (tibasActionResult & actionResult) [explicit]

Definition at line 9 of file ActionResult.cpp.

#### **6.2.3** Member Function Documentation

#### 6.2.3.1 ASApi::Status ActionResult::getStatus () const

Definition at line 29 of file ActionResult.cpp.

#### **6.2.3.2** Tuple ActionResult::getTuple () const

Definition at line 44 of file ActionResult.cpp.

#### 6.2.3.3 ActionResult & ActionResult::setFailed (const Status & status)

Definition at line 22 of file ActionResult.cpp.

#### 6.2.3.4 ActionResult & ActionResult::setFailed ()

Definition at line 15 of file ActionResult.cpp.

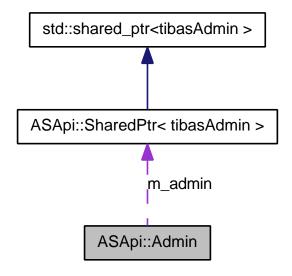
#### 6.2.3.5 ActionResult & ActionResult::setTuple (const Tuple & tuple)

Definition at line 37 of file ActionResult.cpp.

- ActionResult.h
- ActionResult.cpp

### 6.3 ASApi::Admin Class Reference

 $\verb§\#include < Admin.h> Collaboration diagram for ASApi::Admin:$ 



#### **Public Member Functions**

- Admin ()
- ∼Admin ()
- Metaspace connect (const std::string &command)
- std::string execute (const Metaspace &metasace, const std::string &command)

#### **6.3.1 Detailed Description**

Definition at line 11 of file Admin.h.

#### **6.3.2** Constructor & Destructor Documentation

#### **6.3.2.1** Admin::Admin ()

Definition at line 8 of file Admin.cpp.

#### **6.3.2.2** Admin::∼Admin ()

Definition at line 15 of file Admin.cpp.

#### **6.3.3** Member Function Documentation

#### 6.3.3.1 Metaspace Admin::connect (const std::string & command)

Definition at line 21 of file Admin.cpp.

## 6.3.3.2 string Admin::execute (const Metaspace & metasace, const std::string & command)

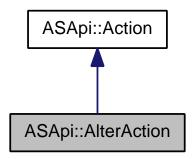
Definition at line 29 of file Admin.cpp.

- Admin.h
- Admin.cpp

### 6.4 ASApi::AlterAction Class Reference

#include <AlterAction.h>

Inherits ASApi::Action.Collaboration diagram for ASApi::AlterAction:



#### **Public Member Functions**

- AlterAction (const tibasAction &action)
- SpaceDef getSpaceDef () const
- SpaceDef getOldSpaceDef () const

#### 6.4.1 Detailed Description

Definition at line 9 of file AlterAction.h.

#### **6.4.2** Constructor & Destructor Documentation

#### 6.4.2.1 AlterAction::AlterAction (const tibasAction & action)

Definition at line 7 of file AlterAction.cpp.

#### **6.4.3** Member Function Documentation

#### ${\bf 6.4.3.1}\quad SpaceDef\ AlterAction:: getOldSpaceDef\ ()\ const$

Definition at line 14 of file AlterAction.cpp.

#### 6.4.3.2 SpaceDef AlterAction::getSpaceDef () const

Definition at line 22 of file AlterAction.cpp.

- AlterAction.h
- AlterAction.cpp

### 6.5 ASApi::AuthenticationCallback Class Reference

#include <AuthenticationCallback.h>

#### Classes

struct CClosure

#### **Public Member Functions**

• virtual Status createUserCredential (AuthenticationInfo &info)=0

#### **Static Public Member Functions**

• static tibas\_status callback (tibasAuthenticationInfo authInfo, void \*closure)

#### **6.5.1** Detailed Description

Definition at line 12 of file AuthenticationCallback.h.

#### **6.5.2** Member Function Documentation

## 6.5.2.1 tibas\_status AuthenticationCallback::callback (tibasAuthenticationInfo authInfo, void \* closure) [static]

Definition at line 6 of file AuthenticationCallback.cpp.

## 6.5.2.2 virtual Status ASApi::AuthenticationCallback::createUserCredential (AuthenticationInfo & info) [pure virtual]

- AuthenticationCallback.h
- AuthenticationCallback.cpp

### 6.6 ASApi::AuthenticationInfo Class Reference

#include <AuthenticationInfo.h>

#### **Public Types**

• typedef tibas\_authenticationMethod Method

#### **Public Member Functions**

- AuthenticationInfo (const tibasAuthenticationInfo &authInfo)
- std::string getMetaspaceName () const
- std::string getHint () const
- std::string getDomain () const
- void setDomain (const std::string &domain)
- std::string getUserName () const
- void setUserName (const std::string &userName)
- std::string getPassword () const
- void setPassword (const std::string &password)

#### **6.6.1 Detailed Description**

Definition at line 13 of file AuthenticationInfo.h.

#### **6.6.2** Member Typedef Documentation

#### 6.6.2.1 typedef tibas\_authenticationMethod AS-Api::AuthenticationInfo::Method

Definition at line 16 of file AuthenticationInfo.h.

#### 6.6.3 Constructor & Destructor Documentation

### 6.6.3.1 AuthenticationInfo::AuthenticationInfo (const tibasAuthenticationInfo & authInfo)

Definition at line 12 of file AuthenticationInfo.cpp.

#### **6.6.4** Member Function Documentation

#### 6.6.4.1 string AuthenticationInfo::getDomain () const

Definition at line 31 of file AuthenticationInfo.cpp.

#### 6.6.4.2 string AuthenticationInfo::getHint() const

Definition at line 25 of file AuthenticationInfo.cpp.

#### 6.6.4.3 string AuthenticationInfo::getMetaspaceName () const

Definition at line 19 of file AuthenticationInfo.cpp.

#### 6.6.4.4 string AuthenticationInfo::getPassword () const

Definition at line 55 of file AuthenticationInfo.cpp.

#### 6.6.4.5 string AuthenticationInfo::getUserName () const

Definition at line 43 of file AuthenticationInfo.cpp.

#### 6.6.4.6 void AuthenticationInfo::setDomain (const std::string & domain)

Definition at line 37 of file AuthenticationInfo.cpp.

#### 6.6.4.7 void AuthenticationInfo::setPassword (const std::string & password)

Definition at line 61 of file AuthenticationInfo.cpp.

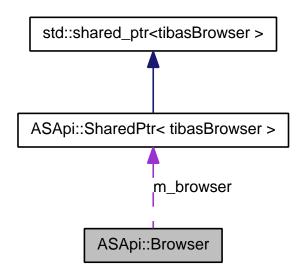
#### 6.6.4.8 void AuthenticationInfo::setUserName (const std::string & userName)

Definition at line 49 of file AuthenticationInfo.cpp.

- AuthenticationInfo.h
- AuthenticationInfo.cpp

### 6.7 ASApi::Browser Class Reference

#include <Browser.h>Collaboration diagram for ASApi::Browser:



#### **Public Member Functions**

- Browser ()
- ∼Browser ()
- const tibasBrowser & get () const
- tibasBrowser & get ()
- Tuple next () const

#### 6.7.1 Detailed Description

Definition at line 13 of file Browser.h.

#### 6.7.2 Constructor & Destructor Documentation

#### 6.7.2.1 Browser::Browser ()

Definition at line 8 of file Browser.cpp.

#### **6.7.2.2** Browser::∼Browser ()

Definition at line 15 of file Browser.cpp.

#### **6.7.3** Member Function Documentation

#### 6.7.3.1 tibasBrowser & Browser::get ()

Definition at line 27 of file Browser.cpp.

#### 6.7.3.2 const tibasBrowser & Browser::get () const

Definition at line 21 of file Browser.cpp.

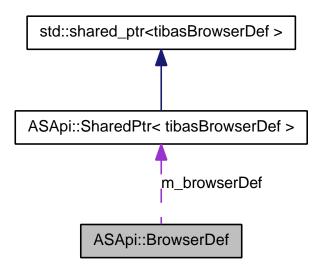
#### 6.7.3.3 Tuple Browser::next () const

Definition at line 32 of file Browser.cpp.

- Browser.h
- Browser.cpp

### 6.8 ASApi::BrowserDef Class Reference

#include <BrowserDef.h>Collaboration diagram for ASApi::BrowserDef:



#### **Public Member Functions**

- BrowserDef ()
- ∼BrowserDef ()
- const tibasBrowserDef & get () const
- tibasBrowserDef & get ()
- DistributionScope getDistributionScope () const
- long long getTimeout () const
- TimeScope getTimeScope () const
- BrowserDef & setDistributionScope (const DistributionScope &distributionScope)
- BrowserDef & setTimeout (long long timeout)
- BrowserDef & setTimeScope (const TimeScope &timescope)

#### **6.8.1** Detailed Description

Definition at line 13 of file BrowserDef.h.

#### **6.8.2** Constructor & Destructor Documentation

#### 6.8.2.1 BrowserDef::BrowserDef()

Definition at line 9 of file BrowserDef.cpp.

#### **6.8.2.2** BrowserDef::∼BrowserDef()

Definition at line 17 of file BrowserDef.cpp.

#### **6.8.3** Member Function Documentation

#### 6.8.3.1 tibasBrowserDef & BrowserDef::get ()

Definition at line 29 of file BrowserDef.cpp.

#### 6.8.3.2 const tibasBrowserDef & BrowserDef::get () const

Definition at line 23 of file BrowserDef.cpp.

#### 6.8.3.3 DistributionScope BrowserDef::getDistributionScope () const

Definition at line 35 of file BrowserDef.cpp.

#### 6.8.3.4 long long BrowserDef::getTimeout () const

Definition at line 43 of file BrowserDef.cpp.

#### 6.8.3.5 TimeScope BrowserDef::getTimeScope () const

Definition at line 51 of file BrowserDef.cpp.

### 6.8.3.6 BrowserDef & BrowserDef::setDistributionScope (const DistributionScope & distributionScope)

Definition at line 59 of file BrowserDef.cpp.

#### 6.8.3.7 BrowserDef & BrowserDef::setTimeout (long long timeout)

Definition at line 66 of file BrowserDef.cpp.

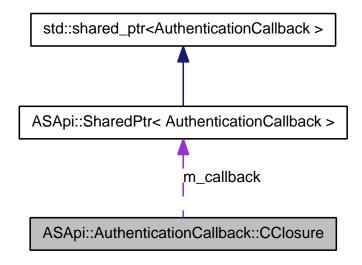
### 6.8.3.8 BrowserDef & BrowserDef::setTimeScope (const TimeScope & timescope)

Definition at line 73 of file BrowserDef.cpp.

- BrowserDef.h
- BrowserDef.cpp

# 6.9 ASApi::AuthenticationCallback::CClosure Struct Reference

 $\verb|#include| < \verb|AuthenticationCallback.h| > Collaboration diagram for AS-Api:: AuthenticationCallback:: CClosure:$ 



#### **Public Attributes**

• SharedPtr< AuthenticationCallback > m\_callback

#### 6.9.1 Detailed Description

Definition at line 15 of file AuthenticationCallback.h.

#### 6.9.2 Member Data Documentation

#### 

Definition at line 17 of file AuthenticationCallback.h.

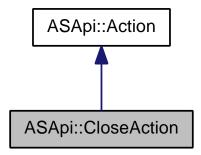
The documentation for this struct was generated from the following file:

· AuthenticationCallback.h

# 6.10 ASApi::CloseAction Class Reference

#include <CloseAction.h>

Inherits ASApi::Action.Collaboration diagram for ASApi::CloseAction:



# **Public Member Functions**

• CloseAction (const tibasAction &action)

# **6.10.1** Detailed Description

Definition at line 9 of file CloseAction.h.

# 6.10.2 Constructor & Destructor Documentation

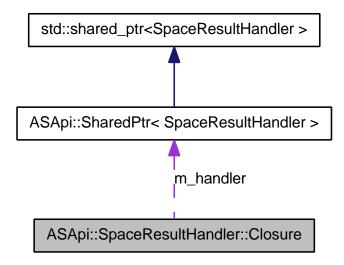
# 6.10.2.1 CloseAction::CloseAction (const tibasAction & action)

Definition at line 6 of file CloseAction.cpp.

- CloseAction.h
- CloseAction.cpp

# 6.11 ASApi::SpaceResultHandler::Closure Struct Reference

#include <SpaceResultHandler.h>Collaboration diagram for AS-Api::SpaceResultHandler::Closure:



#### **Public Attributes**

- SharedPtr< SpaceResultHandler > m\_handler
- void \* m closure

# **6.11.1 Detailed Description**

Definition at line 13 of file SpaceResultHandler.h.

#### **6.11.2** Member Data Documentation

# $\textbf{6.11.2.1} \quad void*\ ASApi::SpaceResultHandler::Closure::m\_closure$

Definition at line 16 of file SpaceResultHandler.h.

# 6.11.2.2 SharedPtr<SpaceResultHandler> ASApi::SpaceResultHandler::Closure::m\_handler

Definition at line 15 of file SpaceResultHandler.h.

ASApi::SpaceResultHandler::Closure Struct Reference	39
• SpaceResultHandler.h	

# **6.12** ASApi::Deleter < T > Class Template Reference

#include <Types.h>

# **Public Member Functions**

- Deleter (Function fn=NULL)
- void operator() (T \*ptr)
- void reset ()

# **6.12.1** Detailed Description

template<typename T> class ASApi::Deleter< T>

Definition at line 33 of file Types.h.

#### **6.12.2** Constructor & Destructor Documentation

6.12.2.1 template<typename T > ASApi::Deleter < T >::Deleter (Function fn = NULL) [inline]

Definition at line 49 of file Types.h.

# **6.12.3** Member Function Documentation

6.12.3.1 template<typename T> void ASApi::Deleter< T>::operator() (T \* ptr) [inline]

Definition at line 57 of file Types.h.

6.12.3.2 template<typename T> void ASApi::Deleter< T>::reset () [inline]

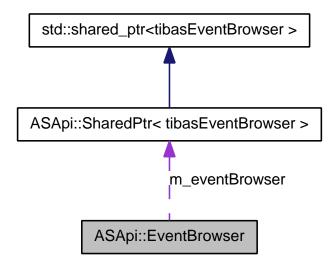
Definition at line 44 of file Types.h.

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

• Types.h

# 6.13 ASApi::EventBrowser Class Reference

 $\label{eq:control_control} \mbox{\sc \#include } < \mbox{\sc EventBrowser.h} > \mbox{\sc Collaboration} \qquad \mbox{\sc diagram} \qquad \mbox{for} \qquad AS-\\ \mbox{\sc Api} :: \mbox{\sc EventBrowser:} \qquad \mbox{\sc diagram} \qquad \mbox{\$ 



# **Public Member Functions**

- EventBrowser ()
- ∼EventBrowser ()
- const tibasEventBrowser & get () const
- tibasEventBrowser & get ()

# **6.13.1** Detailed Description

Definition at line 13 of file EventBrowser.h.

#### **6.13.2** Constructor & Destructor Documentation

# **6.13.2.1** EventBrowser::EventBrowser()

Definition at line 9 of file EventBrowser.cpp.

#### **6.13.2.2** EventBrowser::∼EventBrowser ()

Definition at line 16 of file EventBrowser.cpp.

# **6.13.3** Member Function Documentation

# 6.13.3.1 tibasEventBrowser & EventBrowser::get ()

Definition at line 28 of file EventBrowser.cpp.

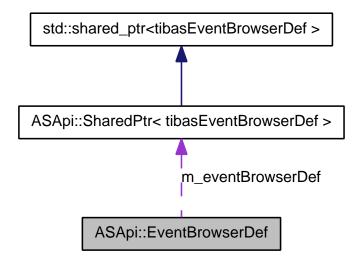
# 6.13.3.2 const tibasEventBrowser & EventBrowser::get () const

Definition at line 22 of file EventBrowser.cpp.

- EventBrowser.h
- EventBrowser.cpp

# 6.14 ASApi::EventBrowserDef Class Reference

#include <EventBrowserDef.h>Collaboration diagram for AS-Api::EventBrowserDef:



# **Public Member Functions**

- EventBrowserDef ()
- ~EventBrowserDef ()
- const tibasEventBrowserDef & get () const
- tibasEventBrowserDef & get ()
- DistributionScope getDistributionScope () const
- long long getTimeout () const
- TimeScope getTimeScope () const
- EventBrowserDef & setDistributionScope (const DistributionScope &distributionScope)
- EventBrowserDef & setTimeout (long long timeout)
- EventBrowserDef & setTimeScope (const TimeScope &timescope)

#### **6.14.1 Detailed Description**

Definition at line 13 of file EventBrowserDef.h.

#### **6.14.2** Constructor & Destructor Documentation

#### **6.14.2.1** EventBrowserDef::EventBrowserDef()

Definition at line 9 of file EventBrowserDef.cpp.

#### **6.14.2.2** EventBrowserDef::~EventBrowserDef()

Definition at line 17 of file EventBrowserDef.cpp.

#### **6.14.3** Member Function Documentation

#### 6.14.3.1 tibasEventBrowserDef & EventBrowserDef::get ()

Definition at line 29 of file EventBrowserDef.cpp.

#### 6.14.3.2 const tibasEventBrowserDef & EventBrowserDef::get () const

Definition at line 23 of file EventBrowserDef.cpp.

#### 6.14.3.3 DistributionScope EventBrowserDef::getDistributionScope () const

Definition at line 35 of file EventBrowserDef.cpp.

#### 6.14.3.4 long long EventBrowserDef::getTimeout () const

Definition at line 43 of file EventBrowserDef.cpp.

#### 6.14.3.5 TimeScope EventBrowserDef::getTimeScope () const

Definition at line 51 of file EventBrowserDef.cpp.

# **6.14.3.6** EventBrowserDef & EventBrowserDef::setDistributionScope (const DistributionScope & distributionScope)

Definition at line 59 of file EventBrowserDef.cpp.

# 6.14.3.7 EventBrowserDef & EventBrowserDef::setTimeout (long long timeout)

Definition at line 66 of file EventBrowserDef.cpp.

# 6.14.3.8 EventBrowserDef & EventBrowserDef::setTimeScope (const TimeScope & timescope)

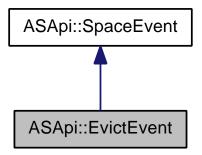
Definition at line 73 of file EventBrowserDef.cpp.

- EventBrowserDef.h
- EventBrowserDef.cpp

# 6.15 ASApi::EvictEvent Class Reference

#include <EvictEvent.h>

Inherits ASApi::SpaceEvent.Collaboration diagram for ASApi::EvictEvent:



#### **Public Member Functions**

- EvictEvent (const tibasSpaceEvent &event)
- ∼EvictEvent ()

# 6.15.1 Detailed Description

Definition at line 10 of file EvictEvent.h.

#### 6.15.2 Constructor & Destructor Documentation

# 6.15.2.1 EvictEvent::EvictEvent (const tibasSpaceEvent & event)

Definition at line 8 of file EvictEvent.cpp.

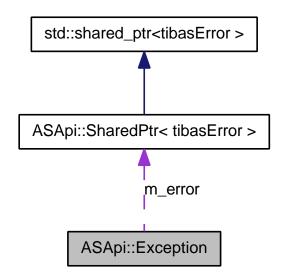
#### 6.15.2.2 EvictEvent::~EvictEvent()

Definition at line 14 of file EvictEvent.cpp.

- EvictEvent.h
- EvictEvent.cpp

# 6.16 ASApi::Exception Class Reference

#include <Exception.h>Collaboration diagram for ASApi::Exception:



#### **Public Member Functions**

- Exception (const tibas\_status &status)
- Exception (const tibasError &error)
- Exception (SharedPtr< tibasError > &error)
- const tibas\_status & getStatus () const
- tibas\_status getCode () const
- std::string getMessage () const
- std::string getStackTrace () const

# 6.16.1 Detailed Description

Definition at line 20 of file Exception.h.

# 6.16.2 Constructor & Destructor Documentation

#### 6.16.2.1 Exception::Exception (const tibas\_status & status)

Definition at line 8 of file Exception.cpp.

# 6.16.2.2 Exception::Exception (const tibasError & error)

Definition at line 16 of file Exception.cpp.

#### 6.16.2.3 Exception::Exception (SharedPtr< tibasError > & error)

Definition at line 29 of file Exception.cpp.

# **6.16.3** Member Function Documentation

# 6.16.3.1 tibas\_status Exception::getCode () const

Definition at line 43 of file Exception.cpp.

#### 6.16.3.2 string Exception::getMessage () const

Definition at line 52 of file Exception.cpp.

# 6.16.3.3 string Exception::getStackTrace () const

Definition at line 61 of file Exception.cpp.

# 6.16.3.4 const tibas\_status & Exception::getStatus () const

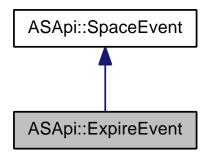
Definition at line 37 of file Exception.cpp.

- Exception.h
- Exception.cpp

# 6.17 ASApi::ExpireEvent Class Reference

#include <ExpireEvent.h>

Inherits ASApi::SpaceEvent.Collaboration diagram for ASApi::ExpireEvent:



#### **Public Member Functions**

- ExpireEvent (const tibasSpaceEvent &event)
- ~ExpireEvent ()

# **6.17.1** Detailed Description

Definition at line 10 of file ExpireEvent.h.

#### 6.17.2 Constructor & Destructor Documentation

# 6.17.2.1 ExpireEvent::ExpireEvent (const tibasSpaceEvent & event)

Definition at line 8 of file ExpireEvent.cpp.

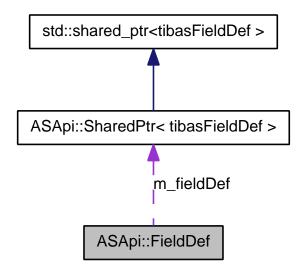
# 6.17.2.2 ExpireEvent::~ExpireEvent ()

Definition at line 14 of file ExpireEvent.cpp.

- ExpireEvent.h
- ExpireEvent.cpp

# 6.18 ASApi::FieldDef Class Reference

#include <FieldDef.h>Collaboration diagram for ASApi::FieldDef:



# **Public Types**

• typedef tibas\_type Type

# **Public Member Functions**

- FieldDef ()
- FieldDef (const std::string &fieldName, tibas\_type fieldType)
- ~FieldDef ()
- const tibasFieldDef & get () const
- tibasFieldDef & get ()
- std::string getName () const
- Type getType () const
- bool is Nullable () const
- FieldDef & setNullable (bool nullable)
- FieldDef & setEncrypted (bool secured)
- bool isEncrypted ()

# **Static Public Member Functions**

• static FieldDef create (const std::string &fieldName, tibas\_type fieldType)

# **6.18.1** Detailed Description

Definition at line 12 of file FieldDef.h.

# **6.18.2** Member Typedef Documentation

#### 6.18.2.1 typedef tibas\_type ASApi::FieldDef::Type

Definition at line 15 of file FieldDef.h.

#### 6.18.3 Constructor & Destructor Documentation

#### 6.18.3.1 FieldDef::FieldDef()

Definition at line 9 of file FieldDef.cpp.

# 6.18.3.2 FieldDef::FieldDef (const std::string & fieldName, tibas\_type fieldType)

Definition at line 15 of file FieldDef.cpp.

#### 6.18.3.3 FieldDef::~FieldDef()

Definition at line 23 of file FieldDef.cpp.

#### **6.18.4** Member Function Documentation

# 6.18.4.1 FieldDef::create (const std::string & fieldName, tibas\_type fieldType) [static]

Definition at line 29 of file FieldDef.cpp.

#### 6.18.4.2 tibasFieldDef & FieldDef::get ()

Definition at line 42 of file FieldDef.cpp.

#### 6.18.4.3 const tibasFieldDef & FieldDef::get () const

Definition at line 36 of file FieldDef.cpp.

# 6.18.4.4 string FieldDef::getName () const

Definition at line 48 of file FieldDef.cpp.

# 6.18.4.5 FieldDef::Type FieldDef::getType () const

Definition at line 55 of file FieldDef.cpp.

# 6.18.4.6 bool FieldDef::isEncrypted ()

Definition at line 102 of file FieldDef.cpp.

# 6.18.4.7 bool FieldDef::isNullable () const

Definition at line 62 of file FieldDef.cpp.

# 6.18.4.8 FieldDef & FieldDef::setEncrypted (bool secured)

Definition at line 89 of file FieldDef.cpp.

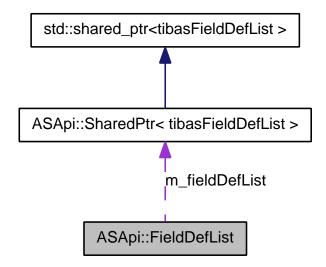
# 6.18.4.9 FieldDef & FieldDef::setNullable (bool nullable)

Definition at line 75 of file FieldDef.cpp.

- FieldDef.h
- FieldDef.cpp

# 6.19 ASApi::FieldDefList Class Reference

 $\label{limit} \begin{tabular}{ll} \#include < FieldDefList.h > Collaboration & diagram & for & AS-Api::FieldDefList: \end{tabular}$ 



# **Public Member Functions**

- FieldDefList ()
- ~FieldDefList ()
- const tibasFieldDefList & get () const
- tibasFieldDefList & get ()
- FieldDef get (int index)
- int size () const

# **6.19.1 Detailed Description**

Definition at line 13 of file FieldDefList.h.

#### 6.19.2 Constructor & Destructor Documentation

#### 6.19.2.1 FieldDefList::FieldDefList()

Definition at line 9 of file FieldDefList.cpp.

# 6.19.2.2 FieldDefList::~FieldDefList()

Definition at line 17 of file FieldDefList.cpp.

# **6.19.3** Member Function Documentation

# 6.19.3.1 FieldDef FieldDefList::get (int index)

Definition at line 35 of file FieldDefList.cpp.

# 6.19.3.2 tibasFieldDefList & FieldDefList::get ()

Definition at line 29 of file FieldDefList.cpp.

# 6.19.3.3 const tibasFieldDefList & FieldDefList::get () const

Definition at line 23 of file FieldDefList.cpp.

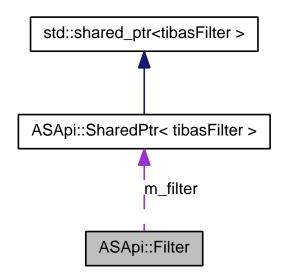
#### 6.19.3.4 int FieldDefList::size () const

Definition at line 43 of file FieldDefList.cpp.

- FieldDefList.h
- FieldDefList.cpp

# 6.20 ASApi::Filter Class Reference

#include <Filter.h>Collaboration diagram for ASApi::Filter:



# **Public Member Functions**

- Filter (const std::string &filterString)
- ∼Filter ()
- const tibasFilter & get () const
- tibasFilter & get ()
- bool eval (const Tuple &tuple) const

# **6.20.1** Detailed Description

Definition at line 13 of file Filter.h.

#### 6.20.2 Constructor & Destructor Documentation

# 6.20.2.1 Filter::Filter (const std::string & filterString)

Definition at line 9 of file Filter.cpp.

#### **6.20.2.2** Filter::∼Filter ()

Definition at line 17 of file Filter.cpp.

# **6.20.3** Member Function Documentation

# 6.20.3.1 bool Filter::eval (const Tuple & tuple) const

Definition at line 35 of file Filter.cpp.

# 6.20.3.2 tibasFilter & Filter::get ()

Definition at line 29 of file Filter.cpp.

# 6.20.3.3 const tibasFilter & Filter::get () const

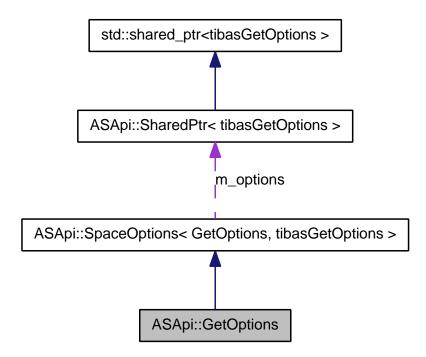
Definition at line 23 of file Filter.cpp.

- Filter.h
- Filter.cpp

# 6.21 ASApi::GetOptions Class Reference

#include <GetOptions.h>

Inherits SpaceOptions< GetOptions, tibasGetOptions >.Collaboration diagram for ASApi::GetOptions:



# **Public Member Functions**

• GetOptions ()

# **6.21.1** Detailed Description

Definition at line 10 of file GetOptions.h.

#### 6.21.2 Constructor & Destructor Documentation

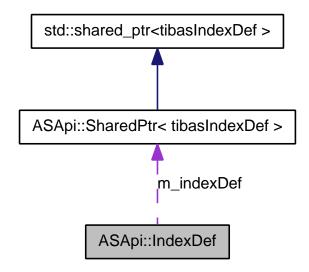
# 6.21.2.1 GetOptions::GetOptions ()

Definition at line 10 of file GetOptions.cpp.

- GetOptions.h
- GetOptions.cpp

# 6.22 ASApi::IndexDef Class Reference

#include <IndexDef.h>Collaboration diagram for ASApi::IndexDef:



#### **Public Member Functions**

- IndexDef ()
- IndexDef (std::string &indexName, std::string &fieldNames)
- ∼IndexDef ()
- const tibasIndexDef & get () const
- tibasIndexDef & get ()
- IndexDef & setName (const std::string &indexName)
- std::string getName () const
- IndexDef & setIndexType (const IndexType &indexType)
- IndexType getIndexType () const
- std::vector< std::string > getFieldNames () const
- IndexDef & setFieldNames (const std::string &fieldNames)
- IndexDef & setFieldNames (int numFields,...)

# **6.22.1** Detailed Description

Definition at line 15 of file IndexDef.h.

#### **6.22.2** Constructor & Destructor Documentation

#### 6.22.2.1 IndexDef::IndexDef()

Definition at line 10 of file IndexDef.cpp.

# 6.22.2.2 IndexDef::IndexDef (std::string & indexName, std::string & fieldNames)

Definition at line 16 of file IndexDef.cpp.

#### 6.22.2.3 IndexDef::~IndexDef()

Definition at line 25 of file IndexDef.cpp.

#### **6.22.3** Member Function Documentation

#### 6.22.3.1 tibasIndexDef & IndexDef::get ()

Definition at line 37 of file IndexDef.cpp.

#### 6.22.3.2 const tibasIndexDef & IndexDef::get () const

Definition at line 31 of file IndexDef.cpp.

#### 6.22.3.3 vector< string > IndexDef::getFieldNames () const

Definition at line 74 of file IndexDef.cpp.

#### **6.22.3.4** IndexType IndexDef::getIndexType () const

Definition at line 66 of file IndexDef.cpp.

# 6.22.3.5 string IndexDef::getName () const

Definition at line 51 of file IndexDef.cpp.

#### 6.22.3.6 IndexDef & IndexDef::setFieldNames (int numFields, ...)

Definition at line 90 of file IndexDef.cpp.

#### 6.22.3.7 IndexDef & IndexDef::setFieldNames (const std::string & fieldNames)

Definition at line 82 of file IndexDef.cpp.

#### 6.22.3.8 IndexDef & IndexDef::setIndexType (const IndexType & indexType)

Definition at line 59 of file IndexDef.cpp.

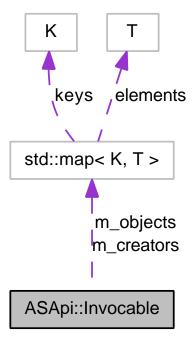
# 6.22.3.9 IndexDef & IndexDef::setName (const std::string & indexName)

Definition at line 43 of file IndexDef.cpp.

- IndexDef.h
- IndexDef.cpp

# 6.23 ASApi::Invocable Class Reference

#include <Invocable.h>Collaboration diagram for ASApi::Invocable:



# **Public Types**

• typedef SharedPtr< Invocable >(\* Creator )()

#### **Public Member Functions**

• virtual void invoke (const Space &space, const Tuple &tuple, const Tuple &context, Tuple &result)=0

#### **Static Public Member Functions**

- static void set (const std::string &alias, Creator creator)
- static void set (const std::string &alias, SharedPtr< Invocable > object)
- static void remove (const std::string &alias)
- static void <a href="invokeByObject">invokeByObject</a> (tibasSpace space, tibasTuple tuple, tibasTuple context, tibasTuple c\_result, const char \*invocable)
- static void <a href="mailto:invokeByCreator">invokeByCreator</a> (tibasSpace space, tibasTuple tuple, tibasTuple context, tibasTuple c\_result, const char \*invocable)
- static void populateAliases (std::vector< std::string > &aliases)

# **6.23.1** Detailed Description

Definition at line 14 of file Invocable.h.

# **6.23.2** Member Typedef Documentation

6.23.2.1 typedef SharedPtr<Invocable>(\* ASApi::Invocable::Creator)()

Definition at line 17 of file Invocable.h.

#### **6.23.3** Member Function Documentation

- 6.23.3.1 virtual void ASApi::Invocable::invoke (const Space & space, const Tuple & tuple, const Tuple & context, Tuple & result) [pure virtual]
- 6.23.3.2 void Invocable::invokeByCreator (tibasSpace space, tibasTuple tuple, tibasTuple context, tibasTuple c\_result, const char \* invocable)
  [static]

Definition at line 74 of file Invocable.cpp.

6.23.3.3 void Invocable::invokeByObject (tibasSpace space, tibasTuple tuple, tibasTuple context, tibasTuple c\_result, const char \* invocable)
[static]

Definition at line 55 of file Invocable.cpp.

6.23.3.4 void Invocable::populateAliases (std::vector< std::string > & aliases)
[static]

Definition at line 42 of file Invocable.cpp.

6.23.3.5 void Invocable::remove (const std::string & alias) [static]

Definition at line 33 of file Invocable.cpp.

6.23.3.6 void Invocable::set (const std::string & alias, SharedPtr< Invocable > object) [static]

Definition at line 23 of file Invocable.cpp.

# 6.23.3.7 void Invocable::set (const std::string & alias, Creator creator) [static]

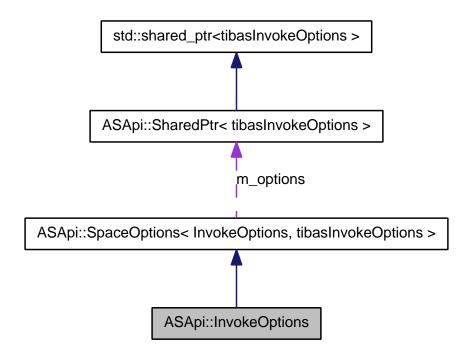
Definition at line 13 of file Invocable.cpp.

- Invocable.h
- Invocable.cpp

# 6.24 ASApi::InvokeOptions Class Reference

#include <InvokeOptions.h>

Inherits SpaceOptions < InvokeOptions, tibasInvokeOptions >.Collaboration diagram for ASApi::InvokeOptions:



# **Public Member Functions**

- InvokeOptions ()
- InvokeOptions & setContext (const Tuple &context)

# 6.24.1 Detailed Description

Definition at line 11 of file InvokeOptions.h.

#### **6.24.2** Constructor & Destructor Documentation

# **6.24.2.1** InvokeOptions::InvokeOptions()

Definition at line 10 of file InvokeOptions.cpp.

# **6.24.3** Member Function Documentation

# 6.24.3.1 InvokeOptions & InvokeOptions::setContext (const Tuple & context)

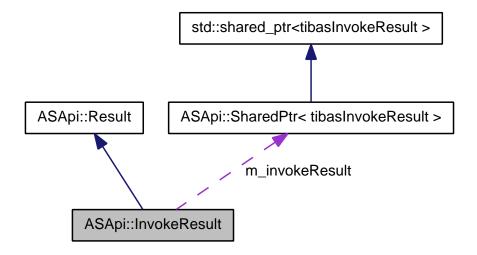
Definition at line 17 of file InvokeOptions.cpp.

- InvokeOptions.h
- InvokeOptions.cpp

# 6.25 ASApi::InvokeResult Class Reference

#include <InvokeResult.h>

Inherits ASApi::Result.Collaboration diagram for ASApi::InvokeResult:



#### **Public Member Functions**

- InvokeResult (SharedPtr< tibasInvokeResult > &invokeResult)
- InvokeResult (tibasInvokeResult &invokeResult)
- ∼InvokeResult ()
- const tibasInvokeResult & get () const
- tibasInvokeResult & get ()
- bool hasError () const
- Exception getError () const
- Status getStatus () const
- Tuple getReturn () const
- Member getMember () const

# 6.25.1 Detailed Description

Definition at line 14 of file InvokeResult.h.

# 6.25.2 Constructor & Destructor Documentation

# $\textbf{6.25.2.1} \quad InvokeResult::InvokeResult \ (SharedPtr < tibasInvokeResult > \& invokeResult)$

Definition at line 7 of file InvokeResult.cpp.

#### 6.25.2.2 InvokeResult::InvokeResult (tibasInvokeResult & invokeResult)

Definition at line 14 of file InvokeResult.cpp.

#### **6.25.2.3** InvokeResult::~InvokeResult ()

Definition at line 20 of file InvokeResult.cpp.

#### **6.25.3** Member Function Documentation

#### 6.25.3.1 tibasInvokeResult & InvokeResult::get ()

Definition at line 32 of file InvokeResult.cpp.

#### 6.25.3.2 const tibasInvokeResult & InvokeResult::get () const

Definition at line 26 of file InvokeResult.cpp.

# 6.25.3.3 Exception InvokeResult::getError() const [virtual]

Implements ASApi::Result.

Definition at line 62 of file InvokeResult.cpp.

# **6.25.3.4** Member InvokeResult::getMember () const

Definition at line 78 of file InvokeResult.cpp.

#### 6.25.3.5 Tuple InvokeResult::getReturn () const

Definition at line 70 of file InvokeResult.cpp.

#### 6.25.3.6 Status InvokeResult::getStatus () const [virtual]

Implements ASApi::Result.

Definition at line 54 of file InvokeResult.cpp.

#### 6.25.3.7 bool InvokeResult::hasError() const [virtual]

Implements ASApi::Result.

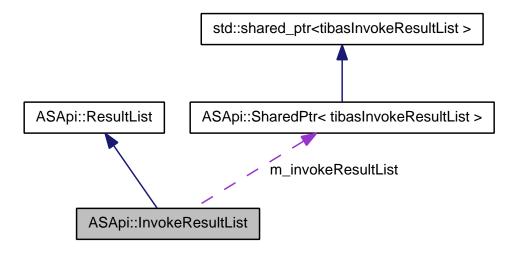
Definition at line 38 of file InvokeResult.cpp.

- InvokeResult.h
- InvokeResult.cpp

# 6.26 ASApi::InvokeResultList Class Reference

#include <InvokeResultList.h>

Inherits ASApi::ResultList.Collaboration diagram for ASApi::InvokeResultList:



#### **Public Member Functions**

- InvokeResultList (const SharedPtr< tibasInvokeResultList > &invokeResultList)
- ∼InvokeResultList ()
- bool hasError () const
- Exception getError (int index) const
- Status getStatus (int index) const
- Tuple getReturn (int index) const
- int size () const
- void getReturns (std::vector< Tuple > &tuples) const
- InvokeResult get (int index) const
- void put (const InvokeResult &result) const

# **6.26.1** Detailed Description

Definition at line 14 of file InvokeResultList.h.

# 6.26.2 Constructor & Destructor Documentation

6.26.2.1 InvokeResultList::InvokeResultList (const SharedPtr< tibasInvokeResultList > & invokeResultList) [explicit]

Definition at line 8 of file InvokeResultList.cpp.

#### **6.26.2.2** InvokeResultList::~InvokeResultList()

Definition at line 15 of file InvokeResultList.cpp.

#### **6.26.3** Member Function Documentation

# 6.26.3.1 InvokeResult InvokeResultList::get (int index) const

Definition at line 85 of file InvokeResultList.cpp.

#### 6.26.3.2 Exception InvokeResultList::getError (int index) const [virtual]

Implements ASApi::ResultList.

Definition at line 35 of file InvokeResultList.cpp.

#### 6.26.3.3 Tuple InvokeResultList::getReturn (int index) const

Definition at line 51 of file InvokeResultList.cpp.

# 6.26.3.4 void InvokeResultList::getReturns (std::vector< Tuple > & tuples) const

Definition at line 67 of file InvokeResultList.cpp.

#### 6.26.3.5 Status InvokeResultList::getStatus (int index) const [virtual]

Implements ASApi::ResultList.

Definition at line 43 of file InvokeResultList.cpp.

# 6.26.3.6 bool InvokeResultList::hasError() const [virtual]

Implements ASApi::ResultList.

Definition at line 21 of file InvokeResultList.cpp.

#### 6.26.3.7 void InvokeResultList::put (const InvokeResult & result) const

Definition at line 93 of file InvokeResultList.cpp.

# 6.26.3.8 int InvokeResultList::size () const [virtual]

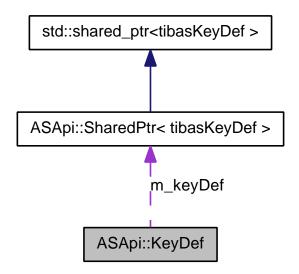
Implements ASApi::ResultList.

Definition at line 59 of file InvokeResultList.cpp.

- InvokeResultList.h
- InvokeResultList.cpp

# 6.27 ASApi::KeyDef Class Reference

#include <KeyDef.h>Collaboration diagram for ASApi::KeyDef:



# **Public Member Functions**

- KeyDef ()
- KeyDef (const std::vector< std::string > &fieldNames)
- KeyDef (const std::string &fieldNames)
- ~KeyDef ()
- const tibasKeyDef & get () const
- tibasKeyDef & get ()
- IndexType getIndexType () const
- KeyDef & setIndexType (const IndexType &indexType)
- const std::vector< std::string > getFieldNames () const
- KeyDef & setFieldNames (const std::vector< std::string > &fieldNames)
- KeyDef & setFieldNames (const std::string &fieldNames)
- KeyDef & setFieldNames (int numFields,...)

# **Static Public Member Functions**

• static KeyDef create ()

# **6.27.1** Detailed Description

Definition at line 14 of file KeyDef.h.

#### **6.27.2** Constructor & Destructor Documentation

#### **6.27.2.1** KeyDef::KeyDef()

Definition at line 10 of file KeyDef.cpp.

#### 6.27.2.2 KeyDef::KeyDef (const std::vector< std::string > & fieldNames)

Definition at line 17 of file KeyDef.cpp.

#### 6.27.2.3 KeyDef::KeyDef (const std::string & fieldNames)

Definition at line 27 of file KeyDef.cpp.

#### **6.27.2.4** KeyDef::∼KeyDef ()

Definition at line 35 of file KeyDef.cpp.

#### **6.27.3** Member Function Documentation

# 6.27.3.1 KeyDef KeyDef::create() [static]

Definition at line 41 of file KeyDef.cpp.

# 6.27.3.2 tibasKeyDef & KeyDef::get ()

Definition at line 54 of file KeyDef.cpp.

# 6.27.3.3 const tibasKeyDef & KeyDef::get () const

Definition at line 48 of file KeyDef.cpp.

# 6.27.3.4 const vector < string > KeyDef::getFieldNames () const

Definition at line 104 of file KeyDef.cpp.

# ${\bf 6.27.3.5} \quad IndexType \ KeyDef::getIndexType \ () \ const$

Definition at line 66 of file KeyDef.cpp.

#### 6.27.3.6 KeyDef & KeyDef::setFieldNames (int numFields, ...)

Definition at line 81 of file KeyDef.cpp.

#### 6.27.3.7 KeyDef & KeyDef::setFieldNames (const std::string & fieldNames)

Definition at line 97 of file KeyDef.cpp.

## 6.27.3.8 KeyDef & KeyDef::setFieldNames (const std::vector< std::string > & fieldNames)

Definition at line 74 of file KeyDef.cpp.

#### 6.27.3.9 KeyDef & KeyDef::setIndexType (const IndexType & indexType)

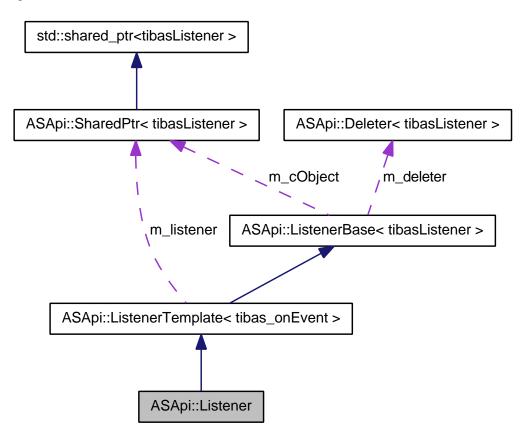
Definition at line 60 of file KeyDef.cpp.

- KeyDef.h
- KeyDef.cpp

### 6.28 ASApi::Listener Class Reference

#include <Listener.h>

Inherits ListenerTemplate< tibas\_onEvent >.Collaboration diagram for AS-Api::Listener:



#### **Public Member Functions**

- Listener ()
- virtual ~Listener ()
- virtual void onPut (const PutEvent &putEvent)
- virtual void on Take (const Take Event & take Event)
- virtual void on Expire (const Expire Event & expire Event)
- virtual void onSeed (const SeedEvent &seedEvent)
- virtual void on Unseed (const Unseed Event & Unseed Event)
- virtual void onEvict (const EvictEvent &evictEvent)

#### **Static Public Member Functions**

• static void onEvent (tibasSpaceEvent event, void \*closure)

#### **6.28.1** Detailed Description

Definition at line 17 of file Listener.h.

#### **6.28.2** Constructor & Destructor Documentation

#### 6.28.2.1 Listener::Listener ()

Definition at line 7 of file Listener.cpp.

#### 6.28.2.2 Listener::~Listener() [virtual]

Definition at line 14 of file Listener.cpp.

#### **6.28.3** Member Function Documentation

### 6.28.3.1 void Listener::onEvent (tibasSpaceEvent event, void \* closure) [static]

Definition at line 20 of file Listener.cpp.

### 6.28.3.2 virtual void ASApi::Listener::onEvict (const EvictEvent & evictEvent) [inline, virtual]

Definition at line 31 of file Listener.h.

## 6.28.3.3 virtual void ASApi::Listener::onExpire (const ExpireEvent & expireEvent) [inline, virtual]

Definition at line 28 of file Listener.h.

## 6.28.3.4 virtual void ASApi::Listener::onPut (const PutEvent & putEvent) [inline, virtual]

Definition at line 26 of file Listener.h.

## 6.28.3.5 virtual void ASApi::Listener::onSeed (const SeedEvent & seedEvent) [inline, virtual]

Definition at line 29 of file Listener.h.

# 6.28.3.6 virtual void ASApi::Listener::onTake (const TakeEvent & takeEvent) [inline, virtual]

Definition at line 27 of file Listener.h.

## 6.28.3.7 virtual void ASApi::Listener::onUnseed (const UnseedEvent & UnseedEvent) [inline, virtual]

Definition at line 30 of file Listener.h.

- Listener.h
- Listener.cpp

# **6.29 ASApi::ListenerBase**< T > Class Template Reference

#include <ListenerBase.h>

#### **Public Member Functions**

- virtual ~ListenerBase ()
- const T & get () const
- T & get ()
- void start ()
- void stop ()

#### **Protected Types**

• typedef Status(\* ListenerFree )(T \*listener)

#### **Protected Member Functions**

- ListenerBase (ListenerFree deleter)
- virtual void create ()=0

#### **Protected Attributes**

- SharedPtr< T > m\_cObject
- Deleter $< T > m_deleter$

#### 6.29.1 Detailed Description

 $template {<} typename \ T {>} \ class \ ASApi::ListenerBase {<} \ T {>}$ 

Definition at line 13 of file ListenerBase.h.

#### **6.29.2** Member Typedef Documentation

 $6.29.2.1 \quad template < typename \ T > typedef \ Status (* \ ASApi::ListenerBase < T \\ >::ListenerFree) (T*listener) \quad [\texttt{protected}]$ 

Definition at line 25 of file ListenerBase.h.

#### **6.29.3** Constructor & Destructor Documentation

6.29.3.1 template<typename T> virtual ASApi::ListenerBase< T >::~ListenerBase() [inline, virtual]

Definition at line 16 of file ListenerBase.h.

6.29.3.2 template<typename T > ASApi::ListenerBase< T >::ListenerBase (ListenerFree deleter) [inline, protected]

Definition at line 36 of file ListenerBase.h.

#### **6.29.4** Member Function Documentation

6.29.4.1 template<typename T> virtual void ASApi::ListenerBase< T >::create() [protected, pure virtual]

**Implemented** ASApi::ListenerTemplate< ASApi::Persister, >, ASApi::SpaceDefListener, ASApi::ListenerTemplate< ASApi::Router, tibas\_onRemoteMemberEvent ASApi::ListenerTemplate< tibas\_->, onSpaceRemoteMemberEvent ASApi::ListenerTemplate< tibas\_onSpaceStateChange >, ASApi::ListenerTemplate< tibas\_onSpaceMemberEvent ASApi::ListenerTemplate< tibas\_onMemberEvent and >, ASApi::ListenerTemplate < tibas\_onEvent >.

### 6.29.4.2 template<typename T > T & ASApi::ListenerBase< T >::get () [inline]

Definition at line 55 of file ListenerBase.h.

6.29.4.3 template<typename T > const T & ASApi::ListenerBase< T >::get () const [inline]

Definition at line 44 of file ListenerBase.h.

6.29.4.4 template<typename T > void ASApi::ListenerBase< T >::start () [inline]

Definition at line 66 of file ListenerBase.h.

Definition at line 77 of file ListenerBase.h.

#### **6.29.5** Member Data Documentation

## 6.29.5.1 template<typename T> SharedPtr<T> ASApi::ListenerBase< T >::m\_cObject [protected]

Definition at line 30 of file ListenerBase.h.

## 6.29.5.2 template<typename T> Deleter<T> ASApi::ListenerBase< T >::m\_deleter [protected]

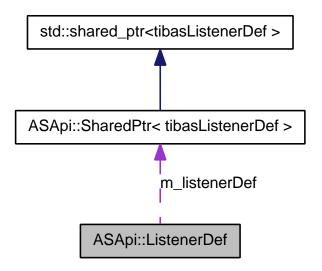
Definition at line 31 of file ListenerBase.h.

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

• ListenerBase.h

### 6.30 ASApi::ListenerDef Class Reference

#include <ListenerDef.h>Collaboration diagram for ASApi::ListenerDef:



#### **Public Member Functions**

- ListenerDef ()
- ~ListenerDef ()
- const tibasListenerDef & get () const
- DistributionScope getDistributionScope () const
- ListenerDef & setDistributionScope (DistributionScope distributionScope)
- TimeScope getTimeScope () const
- ListenerDef & setTimeScope (TimeScope timeScope)
- long long getQueryLimit () const
- ListenerDef & setQueryLimit (long long limit)

#### 6.30.1 Detailed Description

Definition at line 11 of file ListenerDef.h.

#### 6.30.2 Constructor & Destructor Documentation

#### 6.30.2.1 ListenerDef::ListenerDef()

Definition at line 8 of file ListenerDef.cpp.

#### 6.30.2.2 ListenerDef::~ListenerDef()

Definition at line 15 of file ListenerDef.cpp.

#### **6.30.3** Member Function Documentation

#### 6.30.3.1 const tibasListenerDef & ListenerDef::get () const

Definition at line 21 of file ListenerDef.cpp.

#### 6.30.3.2 DistributionScope ListenerDef::getDistributionScope () const

Definition at line 27 of file ListenerDef.cpp.

#### 6.30.3.3 long long ListenerDef::getQueryLimit () const

Definition at line 57 of file ListenerDef.cpp.

#### 6.30.3.4 TimeScope ListenerDef::getTimeScope () const

Definition at line 42 of file ListenerDef.cpp.

### 6.30.3.5 ListenerDef & ListenerDef::setDistributionScope (DistributionScope distributionScope)

Definition at line 35 of file ListenerDef.cpp.

#### 6.30.3.6 ListenerDef & ListenerDef::setQueryLimit (long long limit)

Definition at line 65 of file ListenerDef.cpp.

#### **6.30.3.7** ListenerDef & ListenerDef::setTimeScope (TimeScope timeScope)

Definition at line 50 of file ListenerDef.cpp.

- ListenerDef.h
- ListenerDef.cpp

# **6.31** ASApi::ListenerTemplate < T > Class Template Reference

#include <ListenerTemplate.h> ListenerBase< tibasListener >.Collaboration diagram for ASApi::ListenerTemplate< T >: std::shared\_ptr<tibasListener > ASApi::SharedPtr< tibasListener > ASApi::Deleter< tibasListener > m\_cObject m\_deleter m listener ASApi::ListenerBase< tibasListener > m\_callback ASApi::ListenerTemplate< T >

#### **Public Member Functions**

- virtual ~ListenerTemplate ()
- virtual void create ()

#### **Protected Member Functions**

• ListenerTemplate (Creator creator, T callback)

#### **Protected Attributes**

- SharedPtr< tibasListener > m\_listener
- Creator m\_creator
- T m\_callback

#### **6.31.1** Detailed Description

template<typename T> class ASApi::ListenerTemplate< T>

Definition at line 10 of file ListenerTemplate.h.

#### 6.31.2 Constructor & Destructor Documentation

6.31.2.1 template<typename T> virtual ASApi::ListenerTemplate< T >::~ListenerTemplate() [inline, virtual]

Definition at line 15 of file ListenerTemplate.h.

6.31.2.2 template<typename T> ASApi::ListenerTemplate< T >::ListenerTemplate (Creator creator, T callback) [inline, protected]

Definition at line 29 of file ListenerTemplate.h.

#### **6.31.3** Member Function Documentation

 $6.31.3.1 \quad template < typename \ T > void \ ASApi::Listener Template < T > ::create \\ () \quad [inline, \ virtual]$ 

Implements ASApi::ListenerBase< tibasListener >.

Definition at line 39 of file ListenerTemplate.h.

#### **6.31.4** Member Data Documentation

6.31.4.1 template<typename T> T ASApi::ListenerTemplate< T >::m\_callback [protected]

Definition at line 24 of file ListenerTemplate.h.

6.31.4.2 template<typename T> Creator ASApi::ListenerTemplate< T >::m\_creator [protected]

Definition at line 23 of file ListenerTemplate.h.

 $\begin{array}{ll} \textbf{6.31.4.3} & template < typename \ T > SharedPtr < tibasListener > \\ & ASApi:: ListenerTemplate < T > :: m\_listener \quad \texttt{[protected]} \end{array}$ 

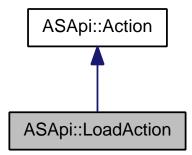
Definition at line 22 of file ListenerTemplate.h.

• ListenerTemplate.h

### 6.32 ASApi::LoadAction Class Reference

#include <LoadAction.h>

Inherits ASApi::Action.Collaboration diagram for ASApi::LoadAction:



#### **Public Member Functions**

• LoadAction (const tibasAction &action)

#### 6.32.1 Detailed Description

Definition at line 9 of file LoadAction.h.

#### 6.32.2 Constructor & Destructor Documentation

#### 6.32.2.1 LoadAction::LoadAction (const tibasAction & action)

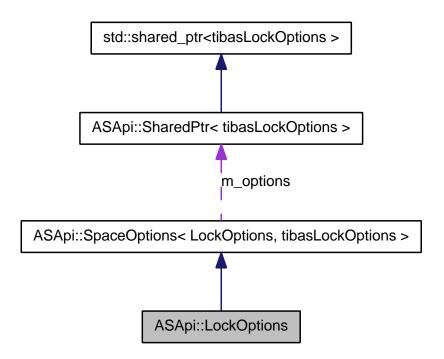
Definition at line 6 of file LoadAction.cpp.

- LoadAction.h
- LoadAction.cpp

### 6.33 ASApi::LockOptions Class Reference

#include <LockOptions.h>

Inherits SpaceOptions < LockOptions, tibasLockOptions >.Collaboration diagram for ASApi::LockOptions:



#### **Public Member Functions**

- LockOptions ()
- LockOptions & setLockWait (long long wait)
- long long getLockWait () const
- LockOptions & setUnlock (bool doLock)
- bool isUnlock () const
- LockOptions & setForget (bool doForget)
- bool isForget () const

#### **6.33.1** Detailed Description

Definition at line 10 of file LockOptions.h.

#### **6.33.2** Constructor & Destructor Documentation

#### **6.33.2.1** LockOptions::LockOptions()

Definition at line 10 of file LockOptions.cpp.

#### **6.33.3** Member Function Documentation

#### 6.33.3.1 long long LockOptions::getLockWait () const

Definition at line 24 of file LockOptions.cpp.

#### 6.33.3.2 bool LockOptions::isForget () const

Definition at line 36 of file LockOptions.cpp.

#### 6.33.3.3 bool ASApi::LockOptions::isUnlock () const

#### 6.33.3.4 LockOptions & LockOptions::setForget (bool doForget)

Definition at line 29 of file LockOptions.cpp.

#### 6.33.3.5 LockOptions & LockOptions::setLockWait (long long wait)

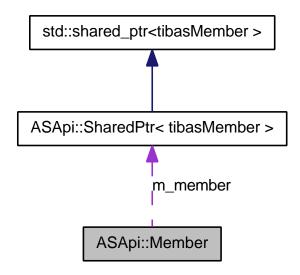
Definition at line 17 of file LockOptions.cpp.

#### 6.33.3.6 LockOptions& ASApi::LockOptions::setUnlock (bool doLock)

- LockOptions.h
- LockOptions.cpp

### 6.34 ASApi::Member Class Reference

#include <Member.h>Collaboration diagram for ASApi::Member:



#### **Public Member Functions**

- Member (const Metaspace &metaspace, const std::string &memberId, const std::string &memberName)
- Member (SharedPtr< tibasMember > &member)
- $\sim$ Member ()
- const tibasMember & get () const
- tibasMember & get ()
- std::string getName () const
- ManagementRole getManagementRole () const
- DistributionRole getDistributionRole (const std::string &spaceName) const
- Tuple getContext () const
- std::string getHostAddress () const
- int getPort () const
- time\_t getJoinTime () const
- std::string getId () const
- std::vector< Member > getProxies () const

### **6.34.1 Detailed Description**

Definition at line 16 of file Member.h.

#### **6.34.2** Constructor & Destructor Documentation

### 6.34.2.1 Member::Member (const Metaspace & metaspace, const std::string & memberId, const std::string & memberName)

Definition at line 11 of file Member.cpp.

#### 6.34.2.2 Member::Member (SharedPtr< tibasMember > & member)

Definition at line 18 of file Member.cpp.

#### **6.34.2.3** Member::∼Member ()

Definition at line 24 of file Member.cpp.

#### **6.34.3** Member Function Documentation

#### 6.34.3.1 tibasMember & Member::get ()

Definition at line 36 of file Member.cpp.

#### 6.34.3.2 const tibasMember & Member::get () const

Definition at line 30 of file Member.cpp.

#### 6.34.3.3 Tuple Member::getContext () const

Definition at line 67 of file Member.cpp.

### **6.34.3.4** DistributionRole Member::getDistributionRole (const std::string & spaceName) const

Definition at line 58 of file Member.cpp.

#### 6.34.3.5 string Member::getHostAddress () const

Definition at line 75 of file Member.cpp.

#### 6.34.3.6 string Member::getId () const

Definition at line 99 of file Member.cpp.

#### 6.34.3.7 time\_t Member::getJoinTime () const

Definition at line 91 of file Member.cpp.

#### ${\bf 6.34.3.8} \quad Management Role\ Member:: get Management Role\ ()\ const$

Definition at line 50 of file Member.cpp.

#### 6.34.3.9 string Member::getName () const

Definition at line 42 of file Member.cpp.

#### 6.34.3.10 int Member::getPort () const

Definition at line 83 of file Member.cpp.

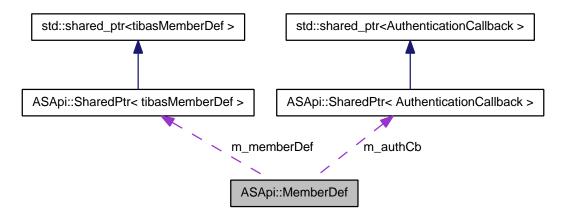
#### 6.34.3.11 vector < Member > Member::getProxies () const

Definition at line 107 of file Member.cpp.

- Member.h
- Member.cpp

### 6.35 ASApi::MemberDef Class Reference

#include <MemberDef.h>Collaboration diagram for ASApi::MemberDef:



#### **Public Member Functions**

- MemberDef ()
- ∼MemberDef ()
- const MemberDef & operator= (SharedPtr< tibasMemberDef > &memberDef)
- const tibasMemberDef & get () const
- tibasMemberDef & get ()
- MemberDef & setMemberName (const std::string &name)
- std::string getMemberName () const
- MemberDef & setDataStore (const std::string &dataStor)
- std::string getDataStore () const
- MemberDef & setRxBufferSize (long long bufferSize)
- long long getRxBufferSize () const
- MemberDef & setWorkerThreadCount (int count)
- int getWorkerThreadCount () const
- MemberDef & setTransportThreadCount (int count)
- int getTransportThreadCount () const
- MemberDef & setConnectTimeout (long long timeout)
- long long getConnectTimeout () const
- MemberDef & setMemberTimeout (long long timeout)
- long long getMemberTimeout () const
- MemberDef & setClientTimeout (long long timeout)
- long long getClientTimeout () const
- MemberDef & setClusterSuspendThreshold (int threshold)
- int getClusterSuspendThreshold () const
- MemberDef & setListen (const std::string &listen)
- std::string getListen () const
- MemberDef & setRemoteListen (const std::string &remoteListen)

- std::string getRemoteListen () const
- MemberDef & setDiscovery (const std::string &discovery)
- std::string getDiscovery () const
- MemberDef & setRemoteDiscovery (const std::string &discovery)
- std::string getRemoteDiscovery () const
- MemberDef & setContext (const Tuple &context)
- Tuple getContext () const
- MemberDef & setSecurityPolicyFile (const std::string &fileName)
- std::string getSecurityPolicyFile () const
- MemberDef & setSecurityTokenFile (const std::string &fileName)
- std::string getSecurityTokenFile () const
- MemberDef & setIdentityPassword (const std::string &identityPassword)
- std::string getIdentityPassword () const
- MemberDef & setAuthenticationCallback (SharedPtr< AuthenticationCallback > &authCb)
- const SharedPtr< AuthenticationCallback > & getAuthenticationCallback ()
  const

#### 6.35.1 Detailed Description

Definition at line 12 of file MemberDef.h.

#### 6.35.2 Constructor & Destructor Documentation

#### 6.35.2.1 MemberDef::MemberDef()

Definition at line 10 of file MemberDef.cpp.

#### 6.35.2.2 MemberDef::~MemberDef()

Definition at line 17 of file MemberDef.cpp.

#### **6.35.3** Member Function Documentation

#### 6.35.3.1 tibasMemberDef & MemberDef::get ()

Definition at line 36 of file MemberDef.cpp.

#### 6.35.3.2 const tibasMemberDef & MemberDef::get () const

Definition at line 30 of file MemberDef.cpp.

### 6.35.3.3 const SharedPtr< AuthenticationCallback > & MemberDef::getAuthenticationCallback () const

Definition at line 260 of file MemberDef.cpp.

#### 6.35.3.4 long long MemberDef::getClientTimeout () const

Definition at line 288 of file MemberDef.cpp.

#### 6.35.3.5 int MemberDef::getClusterSuspendThreshold () const

Definition at line 303 of file MemberDef.cpp.

#### 6.35.3.6 long long MemberDef::getConnectTimeout () const

Definition at line 124 of file MemberDef.cpp.

#### 6.35.3.7 Tuple MemberDef::getContext () const

Definition at line 199 of file MemberDef.cpp.

#### 6.35.3.8 string MemberDef::getDataStore () const

Definition at line 64 of file MemberDef.cpp.

#### 6.35.3.9 string MemberDef::getDiscovery () const

Definition at line 169 of file MemberDef.cpp.

#### 6.35.3.10 string MemberDef::getIdentityPassword () const

Definition at line 244 of file MemberDef.cpp.

#### 6.35.3.11 string MemberDef::getListen () const

Definition at line 139 of file MemberDef.cpp.

#### 6.35.3.12 string MemberDef::getMemberName () const

Definition at line 49 of file MemberDef.cpp.

#### 6.35.3.13 long long MemberDef::getMemberTimeout () const

Definition at line 273 of file MemberDef.cpp.

#### 6.35.3.14 string MemberDef::getRemoteDiscovery () const

Definition at line 184 of file MemberDef.cpp.

#### 6.35.3.15 string MemberDef::getRemoteListen () const

Definition at line 154 of file MemberDef.cpp.

#### 6.35.3.16 long long MemberDef::getRxBufferSize () const

Definition at line 79 of file MemberDef.cpp.

#### 6.35.3.17 string MemberDef::getSecurityPolicyFile () const

Definition at line 214 of file MemberDef.cpp.

#### 6.35.3.18 string MemberDef::getSecurityTokenFile () const

Definition at line 229 of file MemberDef.cpp.

#### 6.35.3.19 int MemberDef::getTransportThreadCount () const

Definition at line 109 of file MemberDef.cpp.

#### 6.35.3.20 int MemberDef::getWorkerThreadCount () const

Definition at line 94 of file MemberDef.cpp.

### 6.35.3.21 const MemberDef & MemberDef::operator= (SharedPtr< tibasMemberDef > & memberDef)

Definition at line 23 of file MemberDef.cpp.

## 6.35.3.22 MemberDef & MemberDef::setAuthenticationCallback (SharedPtr< AuthenticationCallback > & authCb)

Definition at line 252 of file MemberDef.cpp.

#### 6.35.3.23 MemberDef & MemberDef::setClientTimeout (long long timeout)

Definition at line 281 of file MemberDef.cpp.

### 6.35.3.24 MemberDef & MemberDef::setClusterSuspendThreshold (int *threshold*)

Definition at line 296 of file MemberDef.cpp.

#### 6.35.3.25 MemberDef & MemberDef::setConnectTimeout (long long timeout)

Definition at line 117 of file MemberDef.cpp.

#### 6.35.3.26 MemberDef & MemberDef::setContext (const Tuple & context)

Definition at line 192 of file MemberDef.cpp.

### 6.35.3.27 MemberDef & MemberDef::setDataStore (const std::string & dataStor)

Definition at line 57 of file MemberDef.cpp.

### 6.35.3.28 MemberDef & MemberDef::setDiscovery (const std::string & discovery)

Definition at line 162 of file MemberDef.cpp.

# 6.35.3.29 MemberDef & MemberDef::setIdentityPassword (const std::string & identityPassword)

Definition at line 237 of file MemberDef.cpp.

#### 6.35.3.30 MemberDef & MemberDef::setListen (const std::string & listen)

Definition at line 132 of file MemberDef.cpp.

### 6.35.3.31 MemberDef & MemberDef::setMemberName (const std::string & name)

Definition at line 42 of file MemberDef.cpp.

#### 6.35.3.32 MemberDef & MemberDef::setMemberTimeout (long long timeout)

Definition at line 266 of file MemberDef.cpp.

### 6.35.3.33 MemberDef & MemberDef::setRemoteDiscovery (const std::string & discovery)

Definition at line 177 of file MemberDef.cpp.

### 6.35.3.34 MemberDef & MemberDef::setRemoteListen (const std::string & remoteListen)

Definition at line 147 of file MemberDef.cpp.

#### 6.35.3.35 MemberDef & MemberDef::setRxBufferSize (long long bufferSize)

Definition at line 72 of file MemberDef.cpp.

### 6.35.3.36 MemberDef & MemberDef::setSecurityPolicyFile (const std::string & fileName)

Definition at line 207 of file MemberDef.cpp.

## 6.35.3.37 MemberDef & MemberDef::setSecurityTokenFile (const std::string & fileName)

Definition at line 222 of file MemberDef.cpp.

#### 6.35.3.38 MemberDef & MemberDef::setTransportThreadCount (int count)

Definition at line 102 of file MemberDef.cpp.

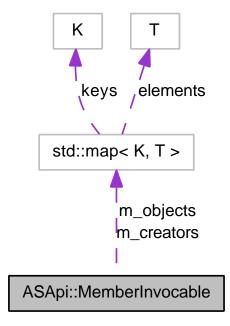
#### 6.35.3.39 MemberDef & MemberDef::setWorkerThreadCount (int count)

Definition at line 87 of file MemberDef.cpp.

- MemberDef.h
- MemberDef.cpp

### 6.36 ASApi::MemberInvocable Class Reference

#include <MemberInvocable.h>Collaboration diagram for AS-Api::MemberInvocable:



#### **Public Types**

• typedef SharedPtr< MemberInvocable >(\* Creator )()

#### **Public Member Functions**

virtual void invoke (const Space &space, const Tuple &context, Tuple &result)=0

#### **Static Public Member Functions**

- static void set (const std::string &alias, Creator creator)
- static void set (const std::string &alias, SharedPtr< MemberInvocable > object)
- static void remove (const std::string &alias)
- static void <a href="invokeByObject">invokeByObject</a> (tibasSpace space, tibasTuple context, tibasTuple c\_result, const char \*invocable)
- static void <a href="mailto:invokeByCreator">invokeByCreator</a> (tibasSpace space, tibasTuple context, tibasTuple c\_result, const char \*invocable)
- static void populateAliases (std::vector< std::string > &aliases)

#### **6.36.1** Detailed Description

Definition at line 13 of file MemberInvocable.h.

#### **6.36.2** Member Typedef Documentation

6.36.2.1 typedef SharedPtr<MemberInvocable>(\* ASApi::MemberInvocable::Creator)()

Definition at line 16 of file MemberInvocable.h.

#### **6.36.3** Member Function Documentation

- 6.36.3.1 virtual void ASApi::MemberInvocable::invoke (const Space & space, const Tuple & context, Tuple & result) [pure virtual]
- 6.36.3.2 void MemberInvocable::invokeByCreator (tibasSpace space, tibasTuple context, tibasTuple c\_result, const char \* invocable)
  [static]

Definition at line 74 of file MemberInvocable.cpp.

6.36.3.3 void MemberInvocable::invokeByObject (tibasSpace space, tibasTuple context, tibasTuple  $c\_result$ , const char \*invocable) [static]

Definition at line 55 of file MemberInvocable.cpp.

6.36.3.4 void MemberInvocable::populateAliases (std::vector< std::string > & aliases) [static]

Definition at line 42 of file MemberInvocable.cpp.

6.36.3.5 void MemberInvocable::remove (const std::string & alias) [static]

Definition at line 33 of file MemberInvocable.cpp.

6.36.3.6 void MemberInvocable::set (const std::string & alias, SharedPtr< MemberInvocable > object) [static]

Definition at line 23 of file MemberInvocable.cpp.

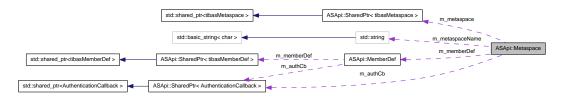
# 6.36.3.7 void MemberInvocable::set (const std::string & alias, Creator creator) [static]

Definition at line 13 of file MemberInvocable.cpp.

- MemberInvocable.h
- MemberInvocable.cpp

### 6.37 ASApi::Metaspace Class Reference

#include <Metaspace.h>Collaboration diagram for ASApi::Metaspace:



#### **Public Member Functions**

- Metaspace ()
- Metaspace (SharedPtr< tibasMetaspace > &metaspace)
- Metaspace (tibasMetaspace &metaspace)
- ∼Metaspace ()
- const tibasMetaspace & get () const
- tibasMetaspace & get ()
- void closeAll ()
- std::vector< std::string > getMetaspaceNames () const
- Space getSpace (const std::string &spaceName, const DistributionRole &distributionRole) const
- Space getSystemSpace (const std::string &spaceName) const
- SpaceState getSpaceState (const std::string &spaceName) const
- std::vector< std::string > getUserSpaceNames () const
- void defineSpace (const SpaceDef &spaceDef) const
- void dropSpace (const std::string &spaceName) const
- void alterSpace (const SpaceDef &spaceDef) const
- void recoverSpace (const std::string &spaceName) const
- void recoverSpace (const std::string &spaceName, const RecoveryOptions &recoveryOptions) const
- SpaceDef getSpaceDef (const std::string &spaceName) const
- void listen (const std::string &spaceName, Listener &listener, const ListenerDef &listenerDef, const std::string &filter)
- void listenSpaceMemberEvents (const std::string &spaceName, SpaceMemberListener &listener)
- void listenMemberEvents (MetaspaceMemberListener &listener)
- void listenSpaceRemoteMemberEvents (const std::string &spaceName, SpaceRemoteMemberListener &listener)
- void listenRemoteMemberEvents (MetaspaceRemoteMemberListener &listener)
- void listenSpaceState (const std::string &spaceName, SpaceStateListener &listener)
- void listenSpaceDefs (SpaceDefListener &listener)
- std::string getRemoteListen () const

- Browser browse (const std::string &spaceName, const BrowserType &browserType, const BrowserDef &browserDef, const std::string &filter) const
- EventBrowser browseEvents (const std::string &spaceName, const Event-BrowserDef &eventBrowserDef, const std::string &filter)
- void beginTransaction ()
- void commitTransaction ()
- void rollbackTransaction ()
- std::vector < Member > getRemoteMembers () const
- std::vector< Member > getMembers () const
- std::vector< Member > getSpaceMembers (const std::string &spaceName)
- Member getSelfMember () const
- std::string getDiscovery () const
- std::string getListen () const
- std::string getRemoteDiscovery () const
- const MemberDef & getMemberDef () const
- Metaspace & setMemberDef (const MemberDef &memberDef)

#### **Static Public Member Functions**

- static Metaspace connect (const std::string &msName, const MemberDef &memberDef)
- static Metaspace connect (const std::string &args)
- static Metaspace connect (int numArgs,...)

#### 6.37.1 Detailed Description

Definition at line 31 of file Metaspace.h.

#### 6.37.2 Constructor & Destructor Documentation

#### 6.37.2.1 Metaspace::Metaspace ()

Definition at line 10 of file Metaspace.cpp.

#### 6.37.2.2 Metaspace::Metaspace (SharedPtr< tibasMetaspace > & metaspace)

Definition at line 16 of file Metaspace.cpp.

#### 6.37.2.3 Metaspace::Metaspace (tibasMetaspace & metaspace)

Definition at line 22 of file Metaspace.cpp.

#### **6.37.2.4** Metaspace::∼Metaspace ()

Definition at line 30 of file Metaspace.cpp.

#### **6.37.3** Member Function Documentation

#### 6.37.3.1 void Metaspace::alterSpace (const SpaceDef & spaceDef) const

Definition at line 159 of file Metaspace.cpp.

#### 6.37.3.2 void Metaspace::beginTransaction ()

Definition at line 258 of file Metaspace.cpp.

# 6.37.3.3 Browser Metaspace::browse (const std::string & spaceName, const BrowserType & browserType, const BrowserDef, const std::string & filter) const

Definition at line 242 of file Metaspace.cpp.

# 6.37.3.4 EventBrowser Metaspace::browseEvents (const std::string & spaceName, const EventBrowserDef & eventBrowserDef, const std::string & filter)

Definition at line 250 of file Metaspace.cpp.

#### 6.37.3.5 void Metaspace::closeAll ()

Definition at line 92 of file Metaspace.cpp.

#### **6.37.3.6** void Metaspace::commitTransaction ()

Definition at line 264 of file Metaspace.cpp.

#### 6.37.3.7 Metaspace Metaspace::connect (int numArgs, ...) [static]

Definition at line 75 of file Metaspace.cpp.

#### 6.37.3.8 Metaspace Metaspace::connect (const std::string & args) [static]

Definition at line 66 of file Metaspace.cpp.

### 6.37.3.9 Metaspace Metaspace::connect (const std::string & msName, const MemberDef & memberDef) [static]

Definition at line 48 of file Metaspace.cpp.

#### 6.37.3.10 void Metaspace::defineSpace (const SpaceDef & spaceDef) const

Definition at line 146 of file Metaspace.cpp.

#### 6.37.3.11 void Metaspace::dropSpace (const std::string & spaceName) const

Definition at line 153 of file Metaspace.cpp.

#### **6.37.3.12** tibasMetaspace & Metaspace::get ()

Definition at line 42 of file Metaspace.cpp.

#### 6.37.3.13 const tibasMetaspace & Metaspace::get () const

Definition at line 36 of file Metaspace.cpp.

#### 6.37.3.14 string Metaspace::getDiscovery () const

Definition at line 308 of file Metaspace.cpp.

#### 6.37.3.15 string Metaspace::getListen () const

Definition at line 316 of file Metaspace.cpp.

#### 6.37.3.16 const MemberDef & Metaspace::getMemberDef () const

Definition at line 332 of file Metaspace.cpp.

#### **6.37.3.17** vector < Member > Metaspace::getMembers () const

Definition at line 284 of file Metaspace.cpp.

#### 6.37.3.18 vector < string > Metaspace::getMetaspaceNames () const

Definition at line 106 of file Metaspace.cpp.

#### 6.37.3.19 string Metaspace::getRemoteDiscovery () const

Definition at line 324 of file Metaspace.cpp.

#### 6.37.3.20 string Metaspace::getRemoteListen () const

Definition at line 234 of file Metaspace.cpp.

#### **6.37.3.21** vector< Member > Metaspace::getRemoteMembers () const

Definition at line 276 of file Metaspace.cpp.

#### 6.37.3.22 Member Metaspace::getSelfMember () const

Definition at line 300 of file Metaspace.cpp.

### 6.37.3.23 Space Metaspace::getSpace (const std::string & spaceName, const DistributionRole & distributionRole) const

Definition at line 114 of file Metaspace.cpp.

### 6.37.3.24 SpaceDef Metaspace::getSpaceDef (const std::string & spaceName) const

Definition at line 177 of file Metaspace.cpp.

### 6.37.3.25 vector < Member > Metaspace::getSpaceMembers (const std::string & spaceName) const

Definition at line 292 of file Metaspace.cpp.

### 6.37.3.26 SpaceState Metaspace::getSpaceState (const std::string & spaceName) const

Definition at line 130 of file Metaspace.cpp.

### 6.37.3.27 Space Metaspace::getSystemSpace (const std::string & spaceName) const

Definition at line 122 of file Metaspace.cpp.

#### 6.37.3.28 vector < string > Metaspace::getUserSpaceNames () const

Definition at line 138 of file Metaspace.cpp.

6.37.3.29 void Metaspace::listen (const std::string & spaceName, Listener & listener, const ListenerDef & listenerDef, const std::string & filter)

Definition at line 185 of file Metaspace.cpp.

6.37.3.30 void Metaspace::listenMemberEvents (MetaspaceMemberListener & *listener*)

Definition at line 199 of file Metaspace.cpp.

6.37.3.31 void Metaspace::listenRemoteMemberEvents (MetaspaceRemoteMemberListener & listener)

Definition at line 213 of file Metaspace.cpp.

6.37.3.32 void Metaspace::listenSpaceDefs (SpaceDefListener & listener)

Definition at line 227 of file Metaspace.cpp.

6.37.3.33 void Metaspace::listenSpaceMemberEvents (const std::string & spaceName, SpaceMemberListener & listener)

Definition at line 192 of file Metaspace.cpp.

6.37.3.34 void Metaspace::listenSpaceRemoteMemberEvents (const std::string & spaceName, SpaceRemoteMemberListener & listener)

Definition at line 206 of file Metaspace.cpp.

6.37.3.35 void Metaspace::listenSpaceState (const std::string & spaceName, SpaceStateListener & listener)

Definition at line 220 of file Metaspace.cpp.

6.37.3.36 void Metaspace::recoverSpace (const std::string & spaceName, const RecoveryOptions & recoveryOptions) const

Definition at line 171 of file Metaspace.cpp.

6.37.3.37 void Metaspace::recoverSpace (const std::string & spaceName) const

Definition at line 165 of file Metaspace.cpp.

### **6.37.3.38** void Metaspace::rollbackTransaction ()

Definition at line 270 of file Metaspace.cpp.

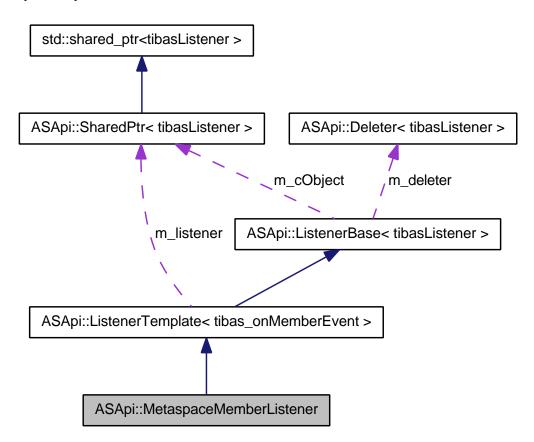
# 6.37.3.39 Metaspace& ASApi::Metaspace::setMemberDef (const MemberDef & memberDef)

- Metaspace.h
- Metaspace.cpp

# 6.38 ASApi::MetaspaceMemberListener Class Reference

#include <MetaspaceMemberListener.h>

Inherits ListenerTemplate < tibas\_onMemberEvent >.Collaboration diagram for AS-Api::MetaspaceMemberListener:



#### **Public Member Functions**

- MetaspaceMemberListener ()
- virtual ~MetaspaceMemberListener ()
- virtual void onJoin (const Member &member, ManagementRole role)
- virtual void on Update (const Member & member, Management Role role)
- virtual void onLeave (const Member &member)

#### **Static Public Member Functions**

• static void onEvent (tibasMemberEvent memberEvent, void \*closure)

#### **6.38.1** Detailed Description

Definition at line 14 of file MetaspaceMemberListener.h.

#### **6.38.2** Constructor & Destructor Documentation

#### **6.38.2.1** MetaspaceMemberListener::MetaspaceMemberListener()

Definition at line 8 of file MetaspaceMemberListener.cpp.

### **6.38.2.2** MetaspaceMemberListener::~MetaspaceMemberListener () [virtual]

Definition at line 15 of file MetaspaceMemberListener.cpp.

#### **6.38.3** Member Function Documentation

### 6.38.3.1 void MetaspaceMemberListener::onEvent (tibasMemberEvent memberEvent, void \* closure) [static]

Definition at line 21 of file MetaspaceMemberListener.cpp.

### 6.38.3.2 virtual void ASApi::MetaspaceMemberListener::onJoin (const Member & member, ManagementRole role) [inline, virtual]

Definition at line 22 of file MetaspaceMemberListener.h.

# 6.38.3.3 virtual void ASApi::MetaspaceMemberListener::onLeave (const Member & member) [inline, virtual]

Definition at line 24 of file MetaspaceMemberListener.h.

## 6.38.3.4 virtual void ASApi::MetaspaceMemberListener::onUpdate (const Member & member, ManagementRole role) [inline, virtual]

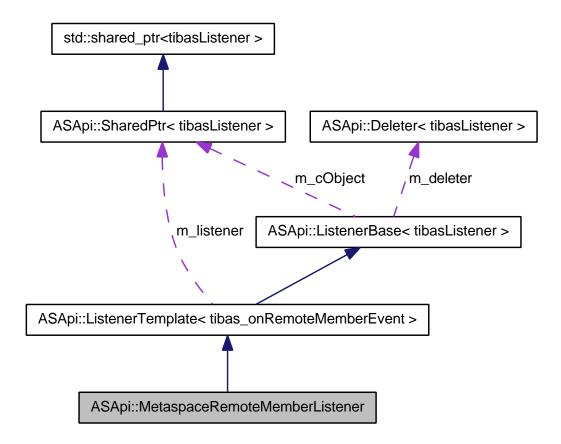
Definition at line 23 of file MetaspaceMemberListener.h.

- MetaspaceMemberListener.h
- MetaspaceMemberListener.cpp

# **6.39** ASApi::MetaspaceRemoteMemberListener Class Reference

#include <MetaspaceRemoteMemberListener.h>

Inherits ListenerTemplate < tibas\_onRemoteMemberEvent >.Collaboration diagram for ASApi::MetaspaceRemoteMemberListener:



#### **Public Member Functions**

- MetaspaceRemoteMemberListener ()
- virtual ~MetaspaceRemoteMemberListener ()
- virtual void onJoin (const Member &member, const Member &proxyMember)
- virtual void onLeave (const Member &member, const Member &proxyMember)

#### **Static Public Member Functions**

• static void onEvent (tibasRemoteMemberEvent remoteMemberEvent, void \*closure)

#### **6.39.1** Detailed Description

Definition at line 13 of file MetaspaceRemoteMemberListener.h.

#### **6.39.2** Constructor & Destructor Documentation

## ${\bf 6.39.2.1} \quad Metaspace Remote Member Listener :: Metaspace Remote Member Listener \\ ()$

Definition at line 8 of file MetaspaceRemoteMemberListener.cpp.

### 6.39.2.2 MetaspaceRemoteMemberListener::∼MetaspaceRemoteMemberListener () [virtual]

Definition at line 15 of file MetaspaceRemoteMemberListener.cpp.

#### **6.39.3** Member Function Documentation

# 6.39.3.1 void MetaspaceRemoteMemberListener::onEvent (tibasRemoteMemberEvent remoteMemberEvent, void \* closure) [static]

Definition at line 20 of file MetaspaceRemoteMemberListener.cpp.

# 6.39.3.2 virtual void ASApi::MetaspaceRemoteMemberListener::onJoin (const Member & member, const Member & proxyMember) [inline, virtual]

Definition at line 21 of file MetaspaceRemoteMemberListener.h.

# 6.39.3.3 virtual void ASApi::MetaspaceRemoteMemberListener::onLeave (const Member & member, const Member & proxyMember) [inline, virtual]

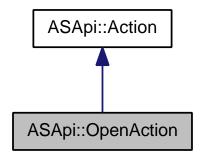
Definition at line 22 of file MetaspaceRemoteMemberListener.h.

- MetaspaceRemoteMemberListener.h
- MetaspaceRemoteMemberListener.cpp

### 6.40 ASApi::OpenAction Class Reference

#include <OpenAction.h>

Inherits ASApi::Action.Collaboration diagram for ASApi::OpenAction:



#### **Public Member Functions**

• OpenAction (const tibasAction &action)

#### 6.40.1 Detailed Description

Definition at line 9 of file OpenAction.h.

#### 6.40.2 Constructor & Destructor Documentation

#### 6.40.2.1 OpenAction::OpenAction (const tibasAction & action)

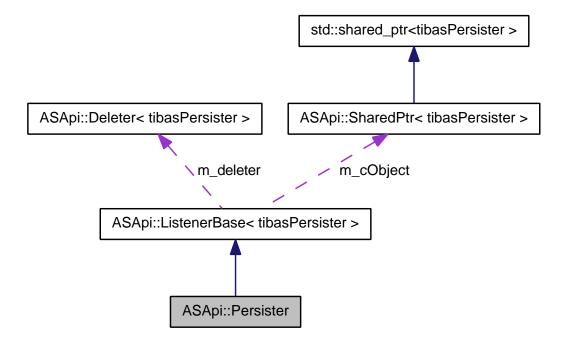
Definition at line 6 of file OpenAction.cpp.

- OpenAction.h
- OpenAction.cpp

### 6.41 ASApi::Persister Class Reference

#include <Persister.h>

Inherits ListenerBase < tibasPersister > .Collaboration diagram for ASApi::Persister:



#### **Public Member Functions**

- Persister ()
- virtual ~Persister ()
- void create ()
- virtual void onOpen (const OpenAction & openAction, ActionResult & actionResult)
- virtual void on Close (const Close Action & close Action, Action Result & action Result)
- virtual void onRead (const ReadAction &readAction, ActionResult &actionResult)
- virtual void onWrite (const WriteAction &writeAction, ActionResult &action-Result)
- virtual void onLoad (const LoadAction &loadAction, ActionResult &actionResult)
- virtual void onAlter (const AlterAction & alterAction, ActionResult & actionResult)

#### **Static Public Member Functions**

- static void on COpen (tibas Persister persister, tibas Action action, tibas Action Result result)
- static void on CClose (tibas Persister persister, tibas Action action, tibas Action Result result)
- static void onCRead (tibasPersister persister, tibasAction action, tibasActionResult result)
- static void on CWrite (tibas Persister persister, tibas Action action, tibas Action Result result)
- static void on CLoad (tibas Persister persister, tibas Action action, tibas Action Result result)
- static void on CAlter (tibas Persister persister, tibas Action action, tibas Action Result result)

#### **6.41.1 Detailed Description**

Definition at line 20 of file Persister.h.

#### 6.41.2 Constructor & Destructor Documentation

#### **6.41.2.1** Persister::Persister()

Definition at line 8 of file Persister.cpp.

#### 6.41.2.2 Persister::~Persister() [virtual]

Definition at line 15 of file Persister.cpp.

#### **6.41.3** Member Function Documentation

#### 6.41.3.1 void Persister::create() [virtual]

 $Implements\ ASApi:: Listener Base < tibas Persister >.$ 

Definition at line 21 of file Persister.cpp.

## 6.41.3.2 virtual void ASApi::Persister::onAlter (const AlterAction & alterAction, ActionResult & actionResult) [inline, virtual]

Definition at line 44 of file Persister.h.

### 6.41.3.3 void Persister::onCAlter (tibasPersister persister, tibasAction action, tibasActionResult result) [static]

Definition at line 82 of file Persister.cpp.

6.41.3.4 void Persister::onCClose (tibasPersister persister, tibasAction action, tibasActionResult result) [static]

Definition at line 38 of file Persister.cpp.

6.41.3.5 void Persister::onCLoad (tibasPersister persister, tibasAction action, tibasActionResult result) [static]

Definition at line 71 of file Persister.cpp.

6.41.3.6 virtual void ASApi::Persister::onClose (const CloseAction & closeAction, ActionResult & actionResult) [inline, virtual]

Definition at line 32 of file Persister.h.

6.41.3.7 void Persister::onCOpen (tibasPersister persister, tibasAction action, tibasActionResult result) [static]

Definition at line 27 of file Persister.cpp.

6.41.3.8 void Persister::onCRead (tibasPersister persister, tibasAction action, tibasActionResult result) [static]

Definition at line 49 of file Persister.cpp.

6.41.3.9 void Persister::onCWrite (tibasPersister persister, tibasAction action, tibasActionResult result) [static]

Definition at line 60 of file Persister.cpp.

6.41.3.10 virtual void ASApi::Persister::onLoad (const LoadAction & loadAction, ActionResult & actionResult) [inline, virtual]

Definition at line 41 of file Persister.h.

6.41.3.11 virtual void ASApi::Persister::onOpen (const OpenAction & openAction, ActionResult & actionResult) [inline, virtual]

Definition at line 29 of file Persister.h.

6.41.3.12 virtual void ASApi::Persister::onRead (const ReadAction & readAction, ActionResult & actionResult) [inline, virtual]

Definition at line 35 of file Persister.h.

## 6.41.3.13 virtual void ASApi::Persister::onWrite (const WriteAction & writeAction, ActionResult & actionResult) [inline, virtual]

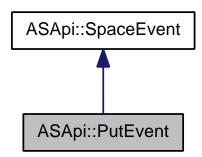
Definition at line 38 of file Persister.h.

- Persister.h
- Persister.cpp

### 6.42 ASApi::PutEvent Class Reference

#include <PutEvent.h>

Inherits ASApi::SpaceEvent.Collaboration diagram for ASApi::PutEvent:



#### **Public Member Functions**

- PutEvent (const tibasSpaceEvent &event)
- ∼PutEvent ()
- bool hasOldTuple () const
- Tuple getOldTuple () const

#### **6.42.1** Detailed Description

Definition at line 10 of file PutEvent.h.

#### 6.42.2 Constructor & Destructor Documentation

#### **6.42.2.1** PutEvent::PutEvent (const tibasSpaceEvent & event)

Definition at line 9 of file PutEvent.cpp.

#### 6.42.2.2 PutEvent::~PutEvent ()

Definition at line 15 of file PutEvent.cpp.

#### **6.42.3** Member Function Documentation

#### 6.42.3.1 Tuple PutEvent::getOldTuple () const

Definition at line 35 of file PutEvent.cpp.

### ${\bf 6.42.3.2}\quad bool\ PutEvent:: hasOldTuple\ ()\ const$

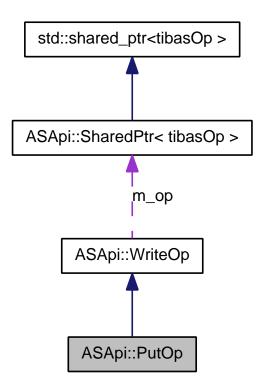
Definition at line 21 of file PutEvent.cpp.

- PutEvent.h
- PutEvent.cpp

### 6.43 ASApi::PutOp Class Reference

#include <PutOp.h>

Inherits ASApi::WriteOp.Collaboration diagram for ASApi::PutOp:



#### **Public Member Functions**

- PutOp (SharedPtr< tibasOp > &op)
- bool hasOldTuple () const
- Tuple getOldTuple () const
- long long getTTL () const

#### 6.43.1 Detailed Description

Definition at line 9 of file PutOp.h.

#### 6.43.2 Constructor & Destructor Documentation

### 6.43.2.1 PutOp::PutOp (SharedPtr< tibasOp > & op)

Definition at line 9 of file PutOp.cpp.

#### **6.43.3** Member Function Documentation

#### 6.43.3.1 Tuple PutOp::getOldTuple () const

Definition at line 30 of file PutOp.cpp.

#### 6.43.3.2 long long PutOp::getTTL () const

Definition at line 38 of file PutOp.cpp.

#### 6.43.3.3 bool PutOp::hasOldTuple () const

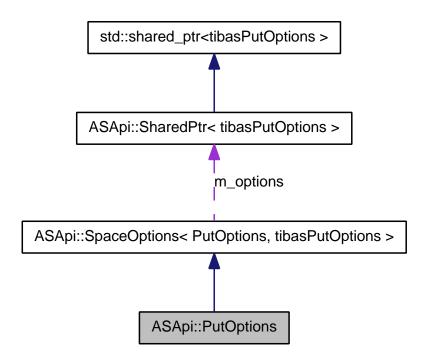
Definition at line 16 of file PutOp.cpp.

- PutOp.h
- PutOp.cpp

### 6.44 ASApi::PutOptions Class Reference

#include <PutOptions.h>

Inherits SpaceOptions < PutOptions, tibasPutOptions > .Collaboration diagram for AS-Api::PutOptions:



#### **Public Member Functions**

- PutOptions ()
- PutOptions & setLockWait (long long wait)
- long long getLockWait () const
- PutOptions & setLock (bool doLock)
- bool isLock () const
- PutOptions & setForget (bool doForget)
- bool isForget () const
- PutOptions & setRoute (bool doRoute)
- bool isRoute () const
- PutOptions & setTTL (long long ttl)
- long long getTTL ()

#### 6.44.1 Detailed Description

Definition at line 10 of file PutOptions.h.

#### 6.44.2 Constructor & Destructor Documentation

#### **6.44.2.1** PutOptions::PutOptions ()

Definition at line 10 of file PutOptions.cpp.

#### **6.44.3** Member Function Documentation

#### 6.44.3.1 long long PutOptions::getLockWait () const

Definition at line 24 of file PutOptions.cpp.

#### 6.44.3.2 long long PutOptions::getTTL ()

Definition at line 100 of file PutOptions.cpp.

#### 6.44.3.3 bool PutOptions::isForget () const

Definition at line 58 of file PutOptions.cpp.

#### 6.44.3.4 bool PutOptions::isLock () const

Definition at line 37 of file PutOptions.cpp.

#### 6.44.3.5 bool PutOptions::isRoute () const

Definition at line 79 of file PutOptions.cpp.

#### 6.44.3.6 PutOptions & PutOptions::setForget (bool doForget)

Definition at line 51 of file PutOptions.cpp.

#### 6.44.3.7 PutOptions & PutOptions::setLock (bool doLock)

Definition at line 30 of file PutOptions.cpp.

#### 6.44.3.8 PutOptions & PutOptions::setLockWait (long long wait)

Definition at line 17 of file PutOptions.cpp.

#### 6.44.3.9 PutOptions & PutOptions::setRoute (bool doRoute)

Definition at line 72 of file PutOptions.cpp.

### 6.44.3.10 PutOptions & PutOptions::setTTL (long long ttl)

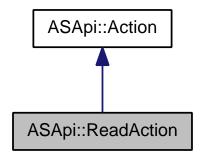
Definition at line 93 of file PutOptions.cpp.

- PutOptions.h
- PutOptions.cpp

### 6.45 ASApi::ReadAction Class Reference

#include <ReadAction.h>

Inherits ASApi::Action.Collaboration diagram for ASApi::ReadAction:



#### **Public Member Functions**

- ReadAction (const tibasAction &action)
- Tuple getTuple () const

#### **6.45.1** Detailed Description

Definition at line 10 of file ReadAction.h.

#### 6.45.2 Constructor & Destructor Documentation

#### 6.45.2.1 ReadAction::ReadAction (const tibasAction & action)

Definition at line 7 of file ReadAction.cpp.

#### **6.45.3** Member Function Documentation

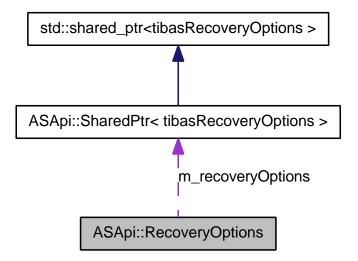
#### 6.45.3.1 Tuple ReadAction::getTuple () const

Definition at line 14 of file ReadAction.cpp.

- ReadAction.h
- ReadAction.cpp

### 6.46 ASApi::RecoveryOptions Class Reference

 $\label{eq:coveryOptions.h} \mbox{\#include} < \mbox{RecoveryOptions.h} > \mbox{Collaboration} \qquad \mbox{diagram} \qquad \mbox{for} \qquad AS-Api:: \mbox{RecoveryOptions:}$ 



#### **Public Member Functions**

- RecoveryOptions ()
- const tibasRecoveryOptions & get () const
- tibasRecoveryOptions & get ()

#### **6.46.1 Detailed Description**

Definition at line 11 of file RecoveryOptions.h.

#### 6.46.2 Constructor & Destructor Documentation

#### **6.46.2.1** RecoveryOptions::RecoveryOptions ()

Definition at line 10 of file RecoveryOptions.cpp.

#### **6.46.3** Member Function Documentation

#### 6.46.3.1 tibasRecoveryOptions & RecoveryOptions::get ()

Definition at line 21 of file RecoveryOptions.cpp.

### $6.46.3.2 \quad const\ tibas Recovery Options\ \&\ Recovery Options:: get\ ()\ const$

Definition at line 15 of file RecoveryOptions.cpp.

- RecoveryOptions.h
- RecoveryOptions.cpp

### 6.47 ASApi::Result Class Reference

#include <Result.h>

Inherited by ASApi::InvokeResult, and ASApi::SpaceResult.

#### **Public Member Functions**

- virtual bool hasError () const =0
- virtual Status getStatus () const =0
- virtual Exception getError () const =0

### 6.47.1 Detailed Description

Definition at line 10 of file Result.h.

#### **6.47.2** Member Function Documentation

## 6.47.2.1 virtual Exception ASApi::Result::getError () const [pure virtual]

Implemented in ASApi::InvokeResult, and ASApi::SpaceResult.

#### 6.47.2.2 virtual Status ASApi::Result::getStatus () const [pure virtual]

Implemented in ASApi::InvokeResult, and ASApi::SpaceResult.

#### 6.47.2.3 virtual bool ASApi::Result::hasError() const [pure virtual]

Implemented in ASApi::InvokeResult, and ASApi::SpaceResult.

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

• Result.h

### 6.48 ASApi::ResultList Class Reference

#include <ResultList.h>

Inherited by ASApi::InvokeResultList, and ASApi::SpaceResultList.

#### **Public Member Functions**

- virtual bool hasError () const =0
- virtual Exception getError (int index) const =0
- virtual Status getStatus (int index) const =0
- virtual int size () const =0

#### 6.48.1 Detailed Description

Definition at line 11 of file ResultList.h.

#### **6.48.2** Member Function Documentation

## 6.48.2.1 virtual Exception ASApi::ResultList::getError (int index) const [pure virtual]

Implemented in ASApi::InvokeResultList, and ASApi::SpaceResultList.

## 6.48.2.2 virtual Status ASApi::ResultList::getStatus (int index) const [pure virtual]

Implemented in ASApi::InvokeResultList, and ASApi::SpaceResultList.

#### 6.48.2.3 virtual bool ASApi::ResultList::hasError() const [pure virtual]

Implemented in ASApi::InvokeResultList, and ASApi::SpaceResultList.

#### 6.48.2.4 virtual int ASApi::ResultList::size () const [pure virtual]

Implemented in ASApi::InvokeResultList, and ASApi::SpaceResultList.

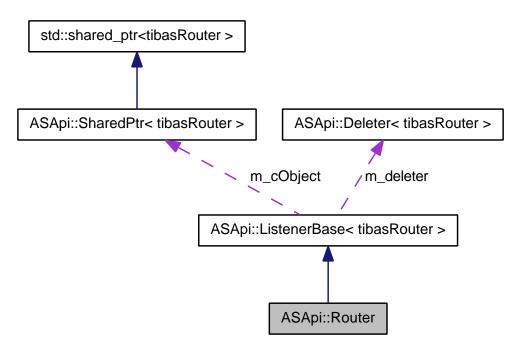
The documentation for this class was generated from the following file:

• ResultList.h

### 6.49 ASApi::Router Class Reference

#include <Router.h>

Inherits ListenerBase < tibasRouter > .Collaboration diagram for ASApi::Router:



#### **Public Member Functions**

- Router ()
- virtual ∼Router ()
- virtual void create ()
- virtual void onOpen (const OpenAction & OpenAction, ActionResult & OpenAction & Ope
- virtual void onClose (const CloseAction &closeAction, ActionResult &action-Result)
- virtual void onWrite (const WriteAction &writeAction, ActionResult &action-Result)
- virtual void onAlter (const AlterAction & alterAction, ActionResult & actionResult)

#### **Static Public Member Functions**

- static void onCOpen (tibasRouter router, tibasAction action, tibasActionResult result)
- static void on CClose (tibas Router router, tibas Action action, tibas Action Result result)

- static void onCWrite (tibasRouter router, tibasAction action, tibasActionResult result)
- static void on CAlter (tibas Router router, tibas Action action, tibas Action Result result)

#### 6.49.1 Detailed Description

Definition at line 19 of file Router.h.

#### 6.49.2 Constructor & Destructor Documentation

#### **6.49.2.1** Router::Router()

Definition at line 8 of file Router.cpp.

#### 6.49.2.2 Router::~Router() [virtual]

Definition at line 15 of file Router.cpp.

#### **6.49.3** Member Function Documentation

#### 6.49.3.1 void Router::create() [virtual]

Implements ASApi::ListenerBase< tibasRouter >.

Definition at line 21 of file Router.cpp.

### 6.49.3.2 virtual void ASApi::Router::onAlter (const AlterAction & alterAction, ActionResult & actionResult) [inline, virtual]

Definition at line 37 of file Router.h.

## 6.49.3.3 void Router::onCAlter (tibasRouter *router*, tibasAction *action*, tibasActionResult *result*) [static]

Definition at line 60 of file Router.cpp.

## 6.49.3.4 void Router::onCClose (tibasRouter router, tibasAction action, tibasActionResult result) [static]

Definition at line 38 of file Router.cpp.

6.49.3.5 virtual void ASApi::Router::onClose (const CloseAction & closeAction, ActionResult & actionResult) [inline, virtual]

Definition at line 31 of file Router.h.

6.49.3.6 void Router::onCOpen (tibasRouter router, tibasAction action, tibasActionResult result) [static]

Definition at line 27 of file Router.cpp.

6.49.3.7 void Router::onCWrite (tibasRouter router, tibasAction action, tibasActionResult result) [static]

Definition at line 49 of file Router.cpp.

6.49.3.8 virtual void ASApi::Router::onOpen (const OpenAction & openAction, ActionResult & actionResult) [inline, virtual]

Definition at line 28 of file Router.h.

6.49.3.9 virtual void ASApi::Router::onWrite (const WriteAction & writeAction, ActionResult & actionResult) [inline, virtual]

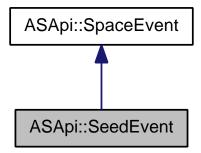
Definition at line 34 of file Router.h.

- Router.h
- Router.cpp

### 6.50 ASApi::SeedEvent Class Reference

#include <SeedEvent.h>

Inherits ASApi::SpaceEvent.Collaboration diagram for ASApi::SeedEvent:



#### **Public Member Functions**

- SeedEvent (const tibasSpaceEvent &event)
- ∼SeedEvent ()

#### 6.50.1 Detailed Description

Definition at line 10 of file SeedEvent.h.

#### 6.50.2 Constructor & Destructor Documentation

#### 6.50.2.1 SeedEvent::SeedEvent (const tibasSpaceEvent & event)

Definition at line 8 of file SeedEvent.cpp.

#### **6.50.2.2** SeedEvent::∼SeedEvent ()

Definition at line 14 of file SeedEvent.cpp.

- SeedEvent.h
- SeedEvent.cpp

### 6.51 shared\_ptr Class Reference

Inherited by ASApi::SharedPtr< AuthenticationCallback >, ASApi::SharedPtr< SpaceResultHandler >, ASApi::SharedPtr < tibasAdmin >, ASApi::SharedPtr < tibas-Browser >, ASApi::SharedPtr< tibasBrowserDef >, ASApi::SharedPtr< tibasError >, ASApi::SharedPtr< tibasEventBrowser >, ASApi::SharedPtr< tibasEvent-BrowserDef >, ASApi::SharedPtr< tibasFieldDef >, ASApi::SharedPtr< tibas-FieldDefList >, ASApi::SharedPtr< tibasFilter >, ASApi::SharedPtr< tibasGetOptions >, ASApi::SharedPtr< tibasIndexDef >, ASApi::SharedPtr< tibasInvokeOptions >, ASApi::SharedPtr< tibasInvokeResult >, ASApi::SharedPtr< tibasInvokeResultList >, ASApi::SharedPtr< tibasKeyDef >, ASApi::SharedPtr< tibasListener >, ASApi::SharedPtr< tibasListenerDef >, ASApi::SharedPtr< tibasLock-Options >, ASApi::SharedPtr< tibasMember >, ASApi::SharedPtr< tibasMemberDef >, ASApi::SharedPtr< tibasMetaspace >, ASApi::SharedPtr< tibasOp >, ASApi::SharedPtr< tibasPersister >, ASApi::SharedPtr< tibasPutOptions >, ASApi::SharedPtr< tibasRecoveryOptions >, ASApi::SharedPtr< tibas-Router >, ASApi::SharedPtr< tibasSpace >, ASApi::SharedPtr< tibasSpaceDef >, ASApi::SharedPtr< tibasSpaceResultList >, ASApi::SharedPtr< tibasTakeOptions >, ASApi::SharedPtr< tibasTuple >, ASApi::SharedPtr< tibasType >, and ASApi::SharedPtr< tibasUnlockOptions >.

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

· SharedPtr.h

# **6.52** ASApi::SharedPtr< T > Class Template Reference

#include <SharedPtr.h>

#### **Public Member Functions**

- SharedPtr ()
- SharedPtr (T \*ptr, Deleter < T > deleter)
- SharedPtr (T \*ptr)
- SharedPtr (const SharedPtr< T > &other)

#### 6.52.1 Detailed Description

 $template {<} typename \ T{>} \ class \ ASApi::SharedPtr{<} \ T>$ 

Definition at line 168 of file SharedPtr.h.

#### 6.52.2 Constructor & Destructor Documentation

### 6.52.2.1 template<typename T> ASApi::SharedPtr< T>::SharedPtr () [inline]

Definition at line 171 of file SharedPtr.h.

## 6.52.2.2 template<typename T> ASApi::SharedPtr< T>::SharedPtr (T \* ptr, Deleter< T > deleter) [inline]

Definition at line 173 of file SharedPtr.h.

## 6.52.2.3 template<typename T> ASApi::SharedPtr< T>::SharedPtr (T \* ptr) [inline]

Definition at line 175 of file SharedPtr.h.

## 6.52.2.4 template<typename T> ASApi::SharedPtr< T>::SharedPtr (const SharedPtr< T > & other) [inline]

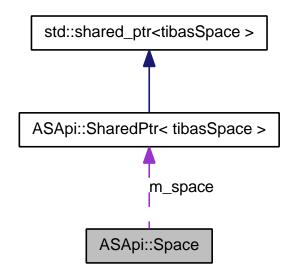
Definition at line 177 of file SharedPtr.h.

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

SharedPtr.h

### 6.53 ASApi::Space Class Reference

#include <Space.h>Collaboration diagram for ASApi::Space:



#### **Public Member Functions**

- Space (SharedPtr< tibasSpace > space=SharedPtr< tibasSpace > (NULL))
- Space (tibasSpace &space)
- ~Space ()
- std::string getName () const
- bool isReady () const
- bool waitForReady (long long timeout) const
- SpaceState getState () const
- Tuple compareAndPut (const Tuple &oldValue, const Tuple &newValue)
- Tuple compareAndPut (const Tuple &oldValue, const Tuple &newValue, const PutOptions &putOptions)
- SpaceResultList compareAndPutAll (const std::vector< Tuple > &oldValue, const std::vector< Tuple > &newValue)
- SpaceResultList compareAndPutAll (const std::vector< Tuple > &oldValue, const std::vector< Tuple > &newValue, const PutOptions &putOptions)
- Tuple compareAndTake (const Tuple &oldValue) const
- Tuple compareAndTake (const Tuple &oldValue, const TakeOptions &takeOptions) const
- SpaceResultList compareAndTakeAll (const std::vector< Tuple > &oldValueList)
- SpaceResultList compareAndTakeAll (const std::vector< Tuple > &oldValueList, const TakeOptions &takeOptions)
- Tuple put (const Tuple &newValue)
- Tuple put (const Tuple &newValue, const PutOptions &putOptions)

- SpaceResultList putAll (const std::vector< Tuple > &tuples)
- SpaceResultList putAll (const std::vector< Tuple > &tuples, const PutOptions &putOptions)
- Tuple take (const Tuple &key) const
- Tuple take (const Tuple &key, const TakeOptions &takeOptions) const
- SpaceResultList takeAll (const std::vector< Tuple > &tuples) const
- SpaceResultList takeAll (const std::vector< Tuple > &tuples, const TakeOptions &takeOptions) const
- void load (const Tuple &newValue)
- SpaceResultList loadAll (const std::vector< Tuple > &valueList)
- SpaceDef getSpaceDef () const
- std::string getMetaspaceName () const
- Metaspace getMetaspace () const
- long long size (const std::string &filter) const
- long long size () const
- void clear (const std::string &filter) const
- void clear () const
- Tuple lock (const Tuple &key) const
- Tuple lock (const Tuple &key, const LockOptions lockOptions)
- SpaceResultList lockAll (const std::vector< Tuple > &keyList) const
- SpaceResultList lockAll (const std::vector< Tuple > &keyList, const LockOptions lockOptions) const
- void unlock (const Tuple &key) const
- void unlock (const Tuple &key, const UnlockOptions unlockOptions) const
- SpaceResultList unlock (const std::vector< Tuple > &keyList) const
- Browser browse (const BrowserType &browserType, const BrowserDef &browserDef, const std::string &filter) const
- Tuple get (const Tuple &keyTuple) const
- Tuple get (const Tuple &keyTuple, const GetOptions &getOptions) const
- SpaceResultList getAll (const std::vector< Tuple > &keyList) const
- void listen (Listener &listener, const ListenerDef &listenerDef, const std::string &filter)
- Space & setDistributionRole (const DistributionRole &distributionRole)
- InvokeResult invoke (const Tuple &tuple, const std::string &invocable, const InvokeOptions &invokeOptions=InvokeOptions()) const
- InvokeResult invokeMember (const Member &member, const std::string &invocable, const InvokeOptions &invokeOptions=InvokeOptions()) const
- InvokeResultList invokeMembers (const std::vector< Member > &memberList, const std::string &invocable, const InvokeOptions &invokeOptions=InvokeOptions()) const
- InvokeResultList invokeRemoteMembers (const std::string &invocable, const InvokeOptions &invokeOptions=InvokeOptions()) const
- InvokeResultList invokeSeeders (const std::string &invocable, const InvokeOptions &invokeOptions=InvokeOptions()) const
- void setPersister (Persister &persister)
- void setRouter (Router &router)

#### 6.53.1 Detailed Description

Definition at line 29 of file Space.h.

#### 6.53.2 Constructor & Destructor Documentation

6.53.2.1 Space::Space (SharedPtr< tibasSpace > space = SharedPtr<tibasSpace> (NULL))

Definition at line 10 of file Space.cpp.

#### 6.53.2.2 Space::Space (tibasSpace & space)

Definition at line 17 of file Space.cpp.

#### **6.53.2.3** Space::∼Space ()

Definition at line 23 of file Space.cpp.

#### **6.53.3** Member Function Documentation

6.53.3.1 Browser Space::browse (const BrowserType & browserType, const BrowserDef & browserDef, const std::string & filter) const

Definition at line 409 of file Space.cpp.

#### 6.53.3.2 void Space::clear () const

Definition at line 347 of file Space.cpp.

#### 6.53.3.3 void Space::clear (const std::string & filter) const

Definition at line 341 of file Space.cpp.

## 6.53.3.4 Tuple Space::compareAndPut (const Tuple & oldValue, const Tuple & newValue, const PutOptions & putOptions)

Definition at line 103 of file Space.cpp.

## 6.53.3.5 Tuple Space::compareAndPut (const Tuple & oldValue, const Tuple & newValue)

Definition at line 85 of file Space.cpp.

6.53.3.6 SpaceResultList Space::compareAndPutAll (const std::vector< Tuple > & oldValue, const std::vector< Tuple > & newValue, const PutOptions & putOptions)

Definition at line 136 of file Space.cpp.

6.53.3.7 SpaceResultList Space::compareAndPutAll (const std::vector< Tuple > & oldValue, const std::vector< Tuple > & newValue)

Definition at line 124 of file Space.cpp.

6.53.3.8 Tuple Space::compareAndTake (const Tuple & oldValue, const TakeOptions & takeOptions) const

Definition at line 290 of file Space.cpp.

6.53.3.9 Tuple Space::compareAndTake (const Tuple & oldValue) const

Definition at line 271 of file Space.cpp.

6.53.3.10 SpaceResultList Space::compareAndTakeAll (const std::vector< Tuple > & oldValueList, const TakeOptions & takeOptions)

Definition at line 242 of file Space.cpp.

6.53.3.11 SpaceResultList Space::compareAndTakeAll (const std::vector < Tuple > & oldValueList)

Definition at line 230 of file Space.cpp.

6.53.3.12 Tuple Space::get (const Tuple & keyTuple, const GetOptions & getOptions) const

Definition at line 425 of file Space.cpp.

6.53.3.13 Tuple Space::get (const Tuple & keyTuple) const

Definition at line 417 of file Space.cpp.

6.53.3.14 SpaceResultList Space::getAll (const std::vector < Tuple > & keyList) const

Definition at line 436 of file Space.cpp.

#### 6.53.3.15 Metaspace Space::getMetaspace () const

Definition at line 317 of file Space.cpp.

#### 6.53.3.16 string Space::getMetaspaceName () const

Definition at line 309 of file Space.cpp.

#### 6.53.3.17 string Space::getName () const

Definition at line 40 of file Space.cpp.

#### 6.53.3.18 SpaceDef Space::getSpaceDef () const

Definition at line 301 of file Space.cpp.

#### 6.53.3.19 SpaceState Space::getState () const

Definition at line 77 of file Space.cpp.

# 6.53.3.20 InvokeResult Space::invoke (const Tuple & tuple, const std::string & invocable, const InvokeOptions & invokeOptions = InvokeOptions ()) const

Definition at line 459 of file Space.cpp.

# 6.53.3.21 InvokeResult Space::invokeMember (const Member & member, const std::string & invocable, const InvokeOptions & invokeOptions = InvokeOptions ()) const

Definition at line 468 of file Space.cpp.

# 6.53.3.22 InvokeResultList Space::invokeMembers (const std::vector < Member > & memberList, const std::string & invocable, const InvokeOptions & invokeOptions = InvokeOptions ()) const

Definition at line 477 of file Space.cpp.

# 6.53.3.23 InvokeResultList Space::invokeRemoteMembers (const std::string & invocable, const InvokeOptions & invokeOptions = InvokeOptions ()) const

Definition at line 487 of file Space.cpp.

### 6.53.3.24 InvokeResultList Space::invokeSeeders (const std::string & invocable, const InvokeOptions & invokeOptions = InvokeOptions ()) const

Definition at line 496 of file Space.cpp.

#### 6.53.3.25 bool Space::isReady () const

Definition at line 47 of file Space.cpp.

### 6.53.3.26 void Space::listen (Listener & listener, const ListenerDef & listenerDef, const std::string & filter)

Definition at line 445 of file Space.cpp.

#### 6.53.3.27 void Space::load (const Tuple & newValue)

Definition at line 256 of file Space.cpp.

## 6.53.3.28 SpaceResultList Space::loadAll (const std::vector< Tuple > & valueList)

Definition at line 262 of file Space.cpp.

## 6.53.3.29 Tuple Space::lock (const Tuple & key, const LockOptions lockOptions)

Definition at line 361 of file Space.cpp.

#### 6.53.3.30 Tuple Space::lock (const Tuple & key) const

Definition at line 353 of file Space.cpp.

## 6.53.3.31 SpaceResultList Space::lockAll (const std::vector< Tuple > & keyList, const LockOptions lockOptions) const

Definition at line 381 of file Space.cpp.

## 6.53.3.32 SpaceResultList Space::lockAll (const std::vector < Tuple > & keyList) const

Definition at line 372 of file Space.cpp.

## 6.53.3.33 Tuple Space::put (const Tuple & newValue, const PutOptions & putOptions)

Definition at line 158 of file Space.cpp.

#### 6.53.3.34 Tuple Space::put (const Tuple & newValue)

Definition at line 150 of file Space.cpp.

### 6.53.3.35 SpaceResultList Space::putAll (const std::vector< Tuple > & tuples, const PutOptions & putOptions)

Definition at line 178 of file Space.cpp.

#### 6.53.3.36 SpaceResultList Space::putAll (const std::vector< Tuple > & tuples)

Definition at line 169 of file Space.cpp.

## 6.53.3.37 Space & Space::setDistributionRole (const DistributionRole & distributionRole)

Definition at line 452 of file Space.cpp.

#### 6.53.3.38 void Space::setPersister (Persister & persister)

Definition at line 505 of file Space.cpp.

#### 6.53.3.39 void Space::setRouter (Router & router)

Definition at line 512 of file Space.cpp.

#### 6.53.3.40 long long Space::size () const

Definition at line 333 of file Space.cpp.

#### 6.53.3.41 long long Space::size (const std::string & filter) const

Definition at line 325 of file Space.cpp.

## 6.53.3.42 Tuple Space::take (const Tuple & key, const TakeOptions & takeOptions) const

Definition at line 198 of file Space.cpp.

#### 6.53.3.43 Tuple Space::take (const Tuple & key) const

Definition at line 190 of file Space.cpp.

## 6.53.3.44 SpaceResultList Space::takeAll (const std::vector< Tuple > & tuples, const TakeOptions & takeOptions) const

Definition at line 218 of file Space.cpp.

## 6.53.3.45 SpaceResultList Space::takeAll (const std::vector< Tuple > & tuples) const

Definition at line 209 of file Space.cpp.

## 6.53.3.46 SpaceResultList ASApi::Space::unlock (const std::vector< Tuple > & keyList) const

### 6.53.3.47 void Space::unlock (const Tuple & key, const UnlockOptions unlockOptions) const

Definition at line 400 of file Space.cpp.

#### 6.53.3.48 void Space::unlock (const Tuple & key) const

Definition at line 394 of file Space.cpp.

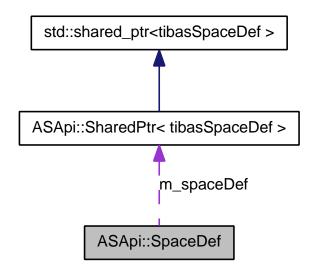
#### 6.53.3.49 bool Space::waitForReady (long long timeout) const

Definition at line 62 of file Space.cpp.

- Space.h
- Space.cpp

### 6.54 ASApi::SpaceDef Class Reference

#include <SpaceDef.h>Collaboration diagram for ASApi::SpaceDef:



### **Public Types**

- typedef tibas\_distributionPolicy DistributionPolicy
- typedef tibas\_persistenceType PersistenceType
- typedef tibas\_evictionPolicy EvictionPolicy
- typedef tibas\_lockScope LockScope
- typedef tibas\_updateTransport UpdateTransport
- typedef tibas\_persistencePolicy PersistencePolicy

#### **Public Member Functions**

- SpaceDef ()
- SpaceDef (SharedPtr< tibasSpaceDef > &spaceDef)
- SpaceDef (const tibasSpaceDef &spaceDef)
- ∼SpaceDef ()
- const tibasSpaceDef & get () const
- tibasSpaceDef & get ()
- SpaceDef & setName (const std::string &name)
- std::string getName () const
- SpaceDef & putFieldDef (const FieldDef &fieldDef)
- FieldDef getFieldDef (const std::string &fieldName) const
- FieldDefList getFieldDefs () const
- void takeFieldDef (FieldDef fieldDef) const
- SpaceDef & setKey (const std::string &fieldNames)

- SpaceDef & setKeyDef (const KeyDef &keyDef)
- KeyDef getKeyDef () const
- SpaceDef & setDistributionPolicy (const DistributionPolicy &distributionPolicy)
- DistributionPolicy getDistributionPolicy () const
- SpaceDef & setPersistenceType (const PersistenceType &persistenceType)
- PersistenceType getPersistenceType () const
- SpaceDef & setMinSeederCount (int seederCount)
- int getMinSeederCount () const
- SpaceDef & setReplicationCount (int replicationCount)
- int getReplicationCount () const
- SpaceDef & setHostAwareReplication (bool flag)
- bool isHostAwareReplication () const
- SpaceDef & setCapacity (long long capacity)
- long long getCapacity () const
- SpaceDef & setEvictionPolicy (EvictionPolicy evictionPolicy)
- EvictionPolicy getEvictionPolicy () const
- LockScope getLockScope () const
- SpaceDef & setLockScope (const LockScope &lockScope)
- int getNumFields () const
- std::vector< std::string > getIndex (const std::string &indexName) const
- void removeIndexDef (const std::string &indexName) const
- UpdateTransport getUpdateTransport () const
- SpaceDef & setUpdateTransport (const UpdateTransport &updateTransport)
- SpaceDef & setDistributionFields (const std::string &fieldNames)
- std::vector< std::string > getDistributionFields () const
- void addIndexDef (const IndexDef &indexDef)
- bool isSyncreplicated () const
- SpaceDef & setSyncReplicated (bool syncReplicated)
- long long getSpaceWait () const
- SpaceDef & setSpaceWait (long long spaceWait)
- long long getWriteTimeout () const
- SpaceDef & setWriteTimeout (long long spaceWait)
- int getReadTimeout () const
- SpaceDef & setReadTimeout (long long spaceWait)
- long long getTTL () const
- SpaceDef & setTTL (long long ttl)
- long long getLockTTL () const
- SpaceDef & setLockTTL (long long lockTTL)
- long long getLockWait () const
- SpaceDef & setLockWait (long long lockWait)
- SpaceDef & setPersisted (bool persisted)
- bool isPersisted ()
- PersistencePolicy getPersistencePolicy () const
- SpaceDef & setPersistencePolicy (const PersistencePolicy &persistencePolicy)

#### 6.54.1 Detailed Description

Definition at line 15 of file SpaceDef.h.

#### **6.54.2** Member Typedef Documentation

#### 6.54.2.1 typedef tibas\_distributionPolicy ASApi::SpaceDef::DistributionPolicy

Definition at line 18 of file SpaceDef.h.

#### 6.54.2.2 typedef tibas\_evictionPolicy ASApi::SpaceDef::EvictionPolicy

Definition at line 20 of file SpaceDef.h.

#### 6.54.2.3 typedef tibas\_lockScope ASApi::SpaceDef::LockScope

Definition at line 21 of file SpaceDef.h.

#### 6.54.2.4 typedef tibas\_persistencePolicy ASApi::SpaceDef::PersistencePolicy

Definition at line 23 of file SpaceDef.h.

#### 6.54.2.5 typedef tibas\_persistenceType ASApi::SpaceDef::PersistenceType

Definition at line 19 of file SpaceDef.h.

#### 6.54.2.6 typedef tibas\_updateTransport ASApi::SpaceDef::UpdateTransport

Definition at line 22 of file SpaceDef.h.

#### 6.54.3 Constructor & Destructor Documentation

#### 6.54.3.1 SpaceDef::SpaceDef()

Definition at line 9 of file SpaceDef.cpp.

#### **6.54.3.2** SpaceDef::SpaceDef (SharedPtr< tibasSpaceDef > & spaceDef)

Definition at line 16 of file SpaceDef.cpp.

#### 6.54.3.3 SpaceDef::SpaceDef (const tibasSpaceDef & spaceDef)

Definition at line 23 of file SpaceDef.cpp.

# 6.54.3.4 SpaceDef::~SpaceDef()

Definition at line 36 of file SpaceDef.cpp.

# **6.54.4** Member Function Documentation

# 6.54.4.1 void SpaceDef::addIndexDef (const IndexDef & indexDef)

Definition at line 300 of file SpaceDef.cpp.

#### 6.54.4.2 tibasSpaceDef & SpaceDef::get ()

Definition at line 48 of file SpaceDef.cpp.

#### 6.54.4.3 const tibasSpaceDef & SpaceDef::get () const

Definition at line 42 of file SpaceDef.cpp.

# 6.54.4.4 long long SpaceDef::getCapacity () const

Definition at line 207 of file SpaceDef.cpp.

# 6.54.4.5 vector < string > SpaceDef::getDistributionFields () const

Definition at line 292 of file SpaceDef.cpp.

# $\textbf{6.54.4.6} \quad SpaceDef:: DistributionPolicy \ SpaceDef:: getDistributionPolicy \ () \ const$

Definition at line 127 of file SpaceDef.cpp.

# $\textbf{6.54.4.7} \quad \textbf{SpaceDef::} \textbf{EvictionPolicy SpaceDef::} \textbf{getEvictionPolicy () const}$

Definition at line 223 of file SpaceDef.cpp.

# 6.54.4.8 FieldDef SpaceDef::getFieldDef (const std::string & fieldName) const

Definition at line 76 of file SpaceDef.cpp.

# 6.54.4.9 FieldDefList SpaceDef::getFieldDefs () const

Definition at line 84 of file SpaceDef.cpp.

# 6.54.4.10 vector < string > SpaceDef::getIndex (const std::string & indexName) const

Definition at line 254 of file SpaceDef.cpp.

#### 6.54.4.11 KeyDef SpaceDef::getKeyDef () const

Definition at line 112 of file SpaceDef.cpp.

# 6.54.4.12 SpaceDef::LockScope SpaceDef::getLockScope () const

Definition at line 231 of file SpaceDef.cpp.

# 6.54.4.13 long long SpaceDef::getLockTTL () const

Definition at line 387 of file SpaceDef.cpp.

# 6.54.4.14 long long SpaceDef::getLockWait () const

Definition at line 402 of file SpaceDef.cpp.

#### 6.54.4.15 int SpaceDef::getMinSeederCount () const

Definition at line 157 of file SpaceDef.cpp.

# 6.54.4.16 string SpaceDef::getName () const

Definition at line 61 of file SpaceDef.cpp.

# 6.54.4.17 int SpaceDef::getNumFields () const

Definition at line 246 of file SpaceDef.cpp.

#### 6.54.4.18 SpaceDef::PersistencePolicy SpaceDef::getPersistencePolicy () const

Definition at line 439 of file SpaceDef.cpp.

# **6.54.4.19** SpaceDef::PersistenceType SpaceDef::getPersistenceType () const

Definition at line 142 of file SpaceDef.cpp.

# 6.54.4.20 int SpaceDef::getReadTimeout () const

Definition at line 357 of file SpaceDef.cpp.

#### 6.54.4.21 int SpaceDef::getReplicationCount () const

Definition at line 171 of file SpaceDef.cpp.

# 6.54.4.22 long long SpaceDef::getSpaceWait () const

Definition at line 327 of file SpaceDef.cpp.

# 6.54.4.23 long long SpaceDef::getTTL () const

Definition at line 372 of file SpaceDef.cpp.

# 6.54.4.24 SpaceDef::UpdateTransport SpaceDef::getUpdateTransport () const

Definition at line 270 of file SpaceDef.cpp.

# 6.54.4.25 long long SpaceDef::getWriteTimeout () const

Definition at line 342 of file SpaceDef.cpp.

# 6.54.4.26 bool SpaceDef::isHostAwareReplication () const

Definition at line 186 of file SpaceDef.cpp.

# 6.54.4.27 bool SpaceDef::isPersisted ()

Definition at line 425 of file SpaceDef.cpp.

# 6.54.4.28 bool SpaceDef::isSyncreplicated () const

Definition at line 306 of file SpaceDef.cpp.

# 6.54.4.29 SpaceDef & SpaceDef::putFieldDef (const FieldDef & fieldDef)

Definition at line 69 of file SpaceDef.cpp.

# 6.54.4.30 void SpaceDef::removeIndexDef (const std::string & indexName) const

Definition at line 262 of file SpaceDef.cpp.

# 6.54.4.31 SpaceDef & SpaceDef::setCapacity (long long capacity)

Definition at line 200 of file SpaceDef.cpp.

# 6.54.4.32 SpaceDef & SpaceDef::setDistributionFields (const std::string & fieldNames)

Definition at line 285 of file SpaceDef.cpp.

# 6.54.4.33 SpaceDef & SpaceDef::setDistributionPolicy (const DistributionPolicy & distributionPolicy)

Definition at line 120 of file SpaceDef.cpp.

# **6.54.4.34** SpaceDef & SpaceDef::setEvictionPolicy (EvictionPolicy evictionPolicy)

Definition at line 216 of file SpaceDef.cpp.

# 6.54.4.35 SpaceDef & SpaceDef::setHostAwareReplication (bool flag)

Definition at line 179 of file SpaceDef.cpp.

# 6.54.4.36 SpaceDef & SpaceDef::setKey (const std::string & fieldNames)

Definition at line 98 of file SpaceDef.cpp.

# 6.54.4.37 SpaceDef & SpaceDef::setKeyDef (const KeyDef & keyDef)

Definition at line 105 of file SpaceDef.cpp.

# 6.54.4.38 SpaceDef & SpaceDef::setLockScope (const LockScope & lockScope)

Definition at line 239 of file SpaceDef.cpp.

# 6.54.4.39 SpaceDef & SpaceDef::setLockTTL (long long lockTTL)

Definition at line 395 of file SpaceDef.cpp.

#### 6.54.4.40 SpaceDef & SpaceDef::setLockWait (long long lockWait)

Definition at line 410 of file SpaceDef.cpp.

# 6.54.4.41 SpaceDef & SpaceDef::setMinSeederCount (int seederCount)

Definition at line 150 of file SpaceDef.cpp.

# 6.54.4.42 SpaceDef & SpaceDef::setName (const std::string & name)

Definition at line 54 of file SpaceDef.cpp.

# 6.54.4.43 SpaceDef & SpaceDef::setPersisted (bool persisted)

Definition at line 417 of file SpaceDef.cpp.

# 6.54.4.44 SpaceDef & SpaceDef::setPersistencePolicy (const PersistencePolicy & persistencePolicy)

Definition at line 447 of file SpaceDef.cpp.

# 6.54.4.45 SpaceDef & SpaceDef::setPersistenceType (const PersistenceType & persistenceType)

Definition at line 135 of file SpaceDef.cpp.

#### 6.54.4.46 SpaceDef & SpaceDef::setReadTimeout (long long spaceWait)

Definition at line 365 of file SpaceDef.cpp.

# 6.54.4.47 SpaceDef & SpaceDef::setReplicationCount (int replicationCount)

Definition at line 165 of file SpaceDef.cpp.

# 6.54.4.48 SpaceDef & SpaceDef::setSpaceWait (long long spaceWait)

Definition at line 335 of file SpaceDef.cpp.

# 6.54.4.49 SpaceDef & SpaceDef::setSyncReplicated (bool syncReplicated)

Definition at line 320 of file SpaceDef.cpp.

# 6.54.4.50 SpaceDef & SpaceDef::setTTL (long long ttl)

Definition at line 380 of file SpaceDef.cpp.

# 6.54.4.51 SpaceDef & SpaceDef::setUpdateTransport (const UpdateTransport & updateTransport)

Definition at line 278 of file SpaceDef.cpp.

# 6.54.4.52 SpaceDef & SpaceDef::setWriteTimeout (long long spaceWait)

Definition at line 350 of file SpaceDef.cpp.

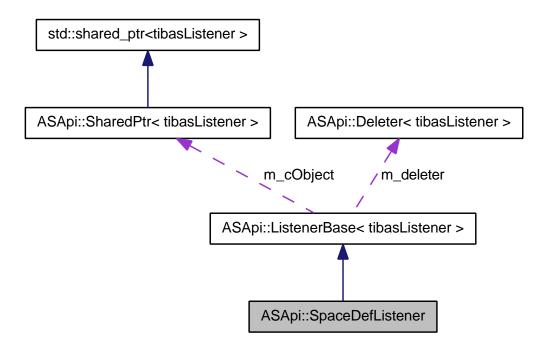
# 6.54.4.53 void SpaceDef::takeFieldDef (FieldDef fieldDef) const

Definition at line 92 of file SpaceDef.cpp.

- SpaceDef.h
- SpaceDef.cpp

# 6.55 ASApi::SpaceDefListener Class Reference

#include <SpaceDefListener.h>
Inherits ListenerBase< tibasListener >.Collaboration diagram for ASApi::SpaceDefListener:



# **Public Member Functions**

- SpaceDefListener ()
- virtual ~SpaceDefListener ()
- virtual void onDefine (const SpaceDef &spaceDef)
- virtual void onAlter (const SpaceDef &oldSpaceDef, const SpaceDef &newSpaceDef)
- virtual void onDrop (const SpaceDef &spaceDef)
- void create ()

#### **Static Public Member Functions**

- static void onSpaceDefine (tibasSpaceDef spaceDef, void \*closure)
- static void onSpaceAlter (tibasSpaceDef oldSpaceDef, tibasSpaceDef newSpaceDef, void \*closure)
- static void onSpaceDrop (tibasSpaceDef spaceDef, void \*closure)

# 6.55.1 Detailed Description

Definition at line 12 of file SpaceDefListener.h.

# 6.55.2 Constructor & Destructor Documentation

# **6.55.2.1** SpaceDefListener::SpaceDefListener()

Definition at line 7 of file SpaceDefListener.cpp.

# 6.55.2.2 SpaceDefListener::~SpaceDefListener() [virtual]

Definition at line 14 of file SpaceDefListener.cpp.

# **6.55.3** Member Function Documentation

#### 6.55.3.1 void SpaceDefListener::create() [virtual]

Implements ASApi::ListenerBase< tibasListener >.

Definition at line 20 of file SpaceDefListener.cpp.

# 6.55.3.2 virtual void ASApi::SpaceDefListener::onAlter (const SpaceDef & oldSpaceDef, const SpaceDef & newSpaceDef) [inline, virtual]

Definition at line 21 of file SpaceDefListener.h.

# 6.55.3.3 virtual void ASApi::SpaceDefListener::onDefine (const SpaceDef & spaceDef) [inline, virtual]

Definition at line 18 of file SpaceDefListener.h.

# 6.55.3.4 virtual void ASApi::SpaceDefListener::onDrop (const SpaceDef & spaceDef) [inline, virtual]

Definition at line 24 of file SpaceDefListener.h.

# 6.55.3.5 void SpaceDefListener::onSpaceAlter (tibasSpaceDef oldSpaceDef, tibasSpaceDef newSpaceDef, void \* closure) [static]

Definition at line 37 of file SpaceDefListener.cpp.

# 6.55.3.6 void SpaceDefListener::onSpaceDefine (tibasSpaceDef spaceDef, void \* closure) [static]

Definition at line 26 of file SpaceDefListener.cpp.

# 6.55.3.7 void SpaceDefListener::onSpaceDrop (tibasSpaceDef spaceDef, void \* closure) [static]

Definition at line 49 of file SpaceDefListener.cpp.

- SpaceDefListener.h
- SpaceDefListener.cpp

# 6.56 ASApi::SpaceEvent Class Reference

#include <SpaceEvent.h>

Inherited by ASApi::EvictEvent, ASApi::ExpireEvent, ASApi::PutEvent, ASApi::SeedEvent, ASApi::TakeEvent, and ASApi::UnseedEvent.

# **Public Types**

• typedef tibas\_eventType EventType

# **Public Member Functions**

- SpaceEvent (const tibasSpaceEvent &event)
- ∼SpaceEvent ()
- Tuple getTuple () const
- std::string getMetaspaceName () const
- std::string getSpaceName () const
- EventType getType () const

#### **Protected Attributes**

• const tibasSpaceEvent & m\_event

# 6.56.1 Detailed Description

Definition at line 11 of file SpaceEvent.h.

# **6.56.2** Member Typedef Documentation

# 6.56.2.1 typedef tibas\_eventType ASApi::SpaceEvent::EventType

Definition at line 14 of file SpaceEvent.h.

# 6.56.3 Constructor & Destructor Documentation

# 6.56.3.1 SpaceEvent::SpaceEvent (const tibasSpaceEvent & event)

Definition at line 8 of file SpaceEvent.cpp.

# 6.56.3.2 SpaceEvent::~SpaceEvent()

Definition at line 15 of file SpaceEvent.cpp.

# **6.56.4** Member Function Documentation

# 6.56.4.1 string SpaceEvent::getMetaspaceName () const

Definition at line 37 of file SpaceEvent.cpp.

# 6.56.4.2 string SpaceEvent::getSpaceName () const

Definition at line 45 of file SpaceEvent.cpp.

# 6.56.4.3 Tuple SpaceEvent::getTuple () const

Definition at line 29 of file SpaceEvent.cpp.

# 6.56.4.4 SpaceEvent::EventType SpaceEvent::getType () const

Definition at line 21 of file SpaceEvent.cpp.

# **6.56.5** Member Data Documentation

# 6.56.5.1 const tibasSpaceEvent& ASApi::SpaceEvent::m\_event [protected]

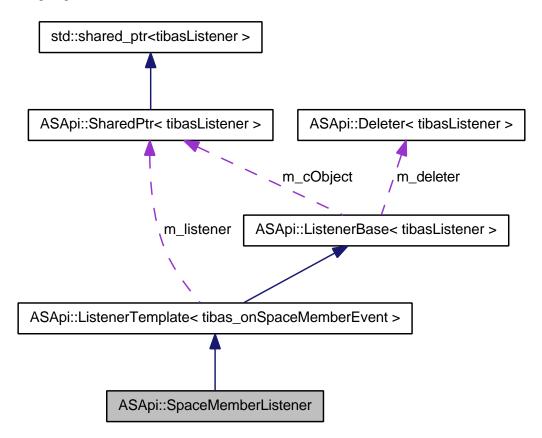
Definition at line 28 of file SpaceEvent.h.

- SpaceEvent.h
- SpaceEvent.cpp

# 6.57 ASApi::SpaceMemberListener Class Reference

#include <SpaceMemberListener.h>

Inherits ListenerTemplate < tibas\_onSpaceMemberEvent >.Collaboration diagram for ASApi::SpaceMemberListener:



# **Public Member Functions**

- SpaceMemberListener ()
- virtual ~SpaceMemberListener ()
- virtual void onJoin (const std::string &spaceName, const Member &member, DistributionRole role)
- virtual void on Update (const std::string &spaceName, const Member &member, DistributionRole role)
- virtual void onLeave (const std::string &spaceName, const Member &member)

# **Static Public Member Functions**

• static void onEvent (tibasSpaceMemberEvent spaceMemberEvent, void \*closure)

# **6.57.1** Detailed Description

Definition at line 13 of file SpaceMemberListener.h.

# 6.57.2 Constructor & Destructor Documentation

# **6.57.2.1** SpaceMemberListener::SpaceMemberListener()

Definition at line 6 of file SpaceMemberListener.cpp.

# 6.57.2.2 SpaceMemberListener::~SpaceMemberListener() [virtual]

Definition at line 13 of file SpaceMemberListener.cpp.

#### **6.57.3** Member Function Documentation

# 6.57.3.1 void SpaceMemberListener::onEvent (tibasSpaceMemberEvent spaceMemberEvent, void \* closure) [static]

Definition at line 18 of file SpaceMemberListener.cpp.

6.57.3.2 virtual void ASApi::SpaceMemberListener::onJoin (const std::string & spaceName, const Member & member, DistributionRole role)
[inline, virtual]

Definition at line 21 of file SpaceMemberListener.h.

6.57.3.3 virtual void ASApi::SpaceMemberListener::onLeave (const std::string & spaceName, const Member & member) [inline, virtual]

Definition at line 23 of file SpaceMemberListener.h.

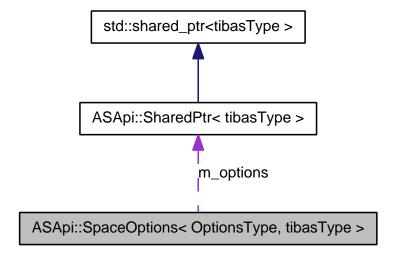
6.57.3.4 virtual void ASApi::SpaceMemberListener::onUpdate (const std::string & spaceName, const Member & member, DistributionRole role) [inline, virtual]

Definition at line 22 of file SpaceMemberListener.h.

- SpaceMemberListener.h
- SpaceMemberListener.cpp

# 6.58 ASApi::SpaceOptions< OptionsType, tibasType > Class Template Reference

 $\label{lem:constraint} \begin{tabular}{ll} \#include & <& paceOptions.h > Collaboration & diagram & for \\ ASApi::SpaceOptions <& OptionsType, tibasType >: \\ \end{tabular}$ 



# **Public Member Functions**

- virtual ~SpaceOptions ()
- tibasType & get () const
- SpaceOptions & setResultHandler (SharedPtr< SpaceResultHandler > handler)
- SharedPtr< SpaceResultHandler > getResultHandler () const
- SpaceOptions & setClosure (void \*closure)
- void \* getClosure () const

# **Protected Member Functions**

• SpaceOptions (Initializer init)

# **Protected Attributes**

• SharedPtr< tibasType > m\_options

# 6.58.1 Detailed Description

template<typename OptionsType, typename tibasType> class ASApi::SpaceOptions< OptionsType, tibasType>

Definition at line 11 of file SpaceOptions.h.

# 6.58.2 Constructor & Destructor Documentation

Definition at line 40 of file SpaceOptions.h.

Definition at line 33 of file SpaceOptions.h.

#### **6.58.3** Member Function Documentation

Definition at line 46 of file SpaceOptions.h.

Definition at line 88 of file SpaceOptions.h.

Definition at line 66 of file SpaceOptions.h.

 $\begin{tabular}{lll} 6.58.3.4 & template < typename & Options Type , typename & tibas Type > \\ & Space Options < & Options Type, tibas Type > & ASApi::Space Options < \\ & Options Type, tibas Type >::set Closure & (void * closure) & [inline] \\ \end{tabular}$ 

Definition at line 74 of file SpaceOptions.h.

Definition at line 52 of file SpaceOptions.h.

# 6.58.4 Member Data Documentation

Definition at line 29 of file SpaceOptions.h.

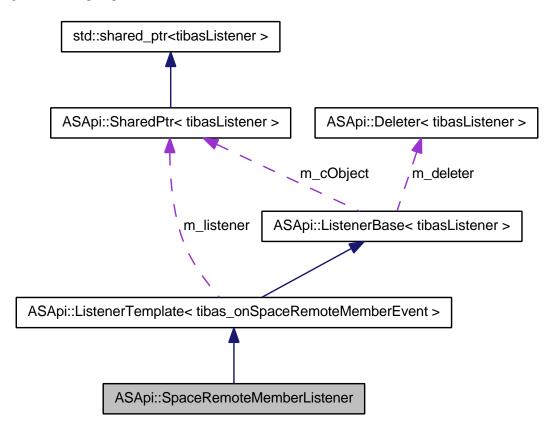
The documentation for this class was generated from the following file:

• SpaceOptions.h

# **6.59** ASApi::SpaceRemoteMemberListener Class Reference

#include <SpaceRemoteMemberListener.h>

Inherits ListenerTemplate < tibas\_onSpaceRemoteMemberEvent > . Collaboration diagram for ASApi::SpaceRemoteMemberListener:



# **Public Member Functions**

- SpaceRemoteMemberListener ()
- virtual ~SpaceRemoteMemberListener ()
- virtual void onJoin (const std::string &spaceName, const Member &member, const Member &proxyMember)
- virtual void onLeave (const std::string &spaceName, const Member &member, const Member &proxyMember)

# **Static Public Member Functions**

• static void onEvent (tibasSpaceRemoteMemberEvent spaceRemoteMemberEvent, void \*closure)

# 6.59.1 Detailed Description

Definition at line 13 of file SpaceRemoteMemberListener.h.

# 6.59.2 Constructor & Destructor Documentation

# **6.59.2.1** SpaceRemoteMemberListener::SpaceRemoteMemberListener()

Definition at line 6 of file SpaceRemoteMemberListener.cpp.

# 6.59.2.2 SpaceRemoteMemberListener::~SpaceRemoteMemberListener() [virtual]

Definition at line 13 of file SpaceRemoteMemberListener.cpp.

# **6.59.3** Member Function Documentation

6.59.3.1 void SpaceRemoteMemberListener::onEvent (tibasSpaceRemoteMemberEvent spaceRemoteMemberEvent, void \* closure) [static]

Definition at line 18 of file SpaceRemoteMemberListener.cpp.

6.59.3.2 virtual void ASApi::SpaceRemoteMemberListener::onJoin (const std::string & spaceName, const Member & member, const Member & proxyMember) [inline, virtual]

Definition at line 21 of file SpaceRemoteMemberListener.h.

6.59.3.3 virtual void ASApi::SpaceRemoteMemberListener::onLeave (const std::string & spaceName, const Member & member, const Member & proxyMember) [inline, virtual]

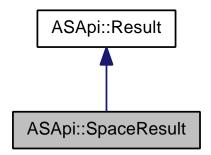
Definition at line 22 of file SpaceRemoteMemberListener.h.

- SpaceRemoteMemberListener.h
- SpaceRemoteMemberListener.cpp

# 6.60 ASApi::SpaceResult Class Reference

#include <SpaceResult.h>

Inherits ASApi::Result.Collaboration diagram for ASApi::SpaceResult:



# **Public Member Functions**

- SpaceResult (const tibasSpaceResult &spaceResult)
- ∼SpaceResult ()
- bool hasError () const
- Status getStatus () const
- Exception getError () const
- Tuple getTuple () const

# **6.60.1** Detailed Description

Definition at line 13 of file SpaceResult.h.

# 6.60.2 Constructor & Destructor Documentation

# 6.60.2.1 SpaceResult::SpaceResult (const tibasSpaceResult & spaceResult)

Definition at line 7 of file SpaceResult.cpp.

# 6.60.2.2 SpaceResult::~SpaceResult ()

Definition at line 14 of file SpaceResult.cpp.

#### **6.60.3** Member Function Documentation

# 6.60.3.1 Exception SpaceResult::getError() const [virtual]

Implements ASApi::Result.

Definition at line 42 of file SpaceResult.cpp.

# 6.60.3.2 Status SpaceResult::getStatus () const [virtual]

Implements ASApi::Result.

Definition at line 34 of file SpaceResult.cpp.

# 6.60.3.3 Tuple SpaceResult::getTuple () const

Definition at line 50 of file SpaceResult.cpp.

# 6.60.3.4 bool SpaceResult::hasError() const [virtual]

Implements ASApi::Result.

Definition at line 20 of file SpaceResult.cpp.

- SpaceResult.h
- SpaceResult.cpp

# 6.61 ASApi::SpaceResultHandler Class Reference

#include <SpaceResultHandler.h>

# Classes

struct Closure

# **Public Member Functions**

• virtual void onComplete (const SpaceResult &spaceResult, void \*closure)=0

# **Static Public Member Functions**

• static void on CComplete (tibas SpaceResult result, void \*closure)

# 6.61.1 Detailed Description

Definition at line 10 of file SpaceResultHandler.h.

# **6.61.2** Member Function Documentation

# 6.61.2.1 void SpaceResultHandler::onCComplete (tibasSpaceResult result, void \* closure) [static]

Definition at line 6 of file SpaceResultHandler.cpp.

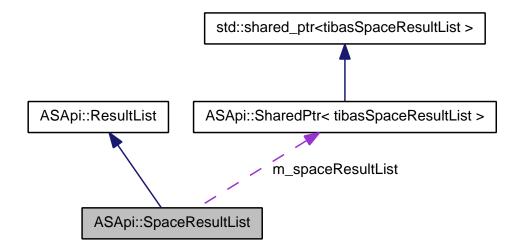
# 6.61.2.2 virtual void ASApi::SpaceResultHandler::onComplete (const SpaceResult & spaceResult, void \* closure) [pure virtual]

- SpaceResultHandler.h
- SpaceResultHandler.cpp

# 6.62 ASApi::SpaceResultList Class Reference

#include <SpaceResultList.h>

Inherits ASApi::ResultList.Collaboration diagram for ASApi::SpaceResultList:



# **Public Member Functions**

- SpaceResultList (const SharedPtr< tibasSpaceResultList > &spaceResultList)
- ~SpaceResultList ()
- bool hasError () const
- Exception getError (int index) const
- Status getStatus (int index) const
- Tuple getTuple (int index) const
- int size () const
- void getTuples (std::vector< Tuple > &tuples) const

# **6.62.1 Detailed Description**

Definition at line 14 of file SpaceResultList.h.

# **6.62.2** Constructor & Destructor Documentation

6.62.2.1 SpaceResultList::SpaceResultList (const SharedPtr< tibasSpaceResultList > & spaceResultList) [explicit]

Definition at line 7 of file SpaceResultList.cpp.

#### **6.62.2.2** SpaceResultList::~SpaceResultList()

Definition at line 14 of file SpaceResultList.cpp.

# **6.62.3** Member Function Documentation

# 6.62.3.1 Exception SpaceResultList::getError (int index) const [virtual]

Implements ASApi::ResultList.

Definition at line 34 of file SpaceResultList.cpp.

# 6.62.3.2 Status SpaceResultList::getStatus (int index) const [virtual]

Implements ASApi::ResultList.

Definition at line 42 of file SpaceResultList.cpp.

# 6.62.3.3 Tuple SpaceResultList::getTuple (int index) const

Definition at line 50 of file SpaceResultList.cpp.

# 6.62.3.4 void SpaceResultList::getTuples (std::vector< Tuple > & tuples) const

Definition at line 66 of file SpaceResultList.cpp.

# 6.62.3.5 bool SpaceResultList::hasError() const [virtual]

Implements ASApi::ResultList.

Definition at line 20 of file SpaceResultList.cpp.

#### 6.62.3.6 int SpaceResultList::size() const [virtual]

Implements ASApi::ResultList.

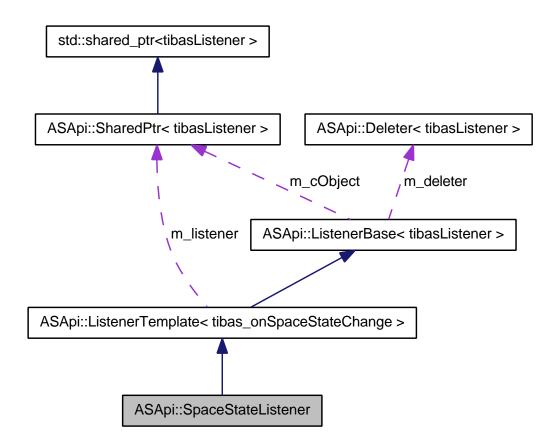
Definition at line 58 of file SpaceResultList.cpp.

- SpaceResultList.h
- SpaceResultList.cpp

# 6.63 ASApi::SpaceStateListener Class Reference

#include <SpaceStateListener.h>

 $Inherits\ Listener Template < tibas\_on Space State Change > . Collaboration\ diagram\ for\ ASApi:: Space State Listener:$ 



# **Public Types**

• typedef tibas\_spaceState SpaceState

# **Public Member Functions**

- SpaceStateListener ()
- virtual ~SpaceStateListener ()
- virtual void onStateChange (const std::string &spaceName, const SpaceState &spaceState)=0

#### **Static Public Member Functions**

static void on CState Chage (const char \*spaceName, tibas\_spaceState spaceState, void \*closure)

# 6.63.1 Detailed Description

Definition at line 12 of file SpaceStateListener.h.

# **6.63.2** Member Typedef Documentation

# 6.63.2.1 typedef tibas\_spaceState ASApi::SpaceStateListener::SpaceState

Definition at line 15 of file SpaceStateListener.h.

# 6.63.3 Constructor & Destructor Documentation

# **6.63.3.1** SpaceStateListener::SpaceStateListener()

Definition at line 9 of file SpaceStateListener.cpp.

# 6.63.3.2 SpaceStateListener::~SpaceStateListener() [virtual]

Definition at line 16 of file SpaceStateListener.cpp.

#### **6.63.4** Member Function Documentation

6.63.4.1 void SpaceStateListener::onCStateChage (const char \* spaceName, tibas\_spaceState spaceState, void \* closure) [static]

Definition at line 22 of file SpaceStateListener.cpp.

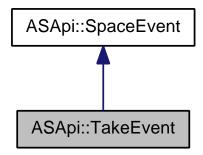
# 6.63.4.2 virtual void ASApi::SpaceStateListener::onStateChange (const std::string & spaceName, const SpaceState & spaceState) [pure virtual]

- SpaceStateListener.h
- SpaceStateListener.cpp

# 6.64 ASApi::TakeEvent Class Reference

#include <TakeEvent.h>

Inherits ASApi::SpaceEvent.Collaboration diagram for ASApi::TakeEvent:



#### **Public Member Functions**

- TakeEvent (const tibasSpaceEvent &event)
- ∼TakeEvent ()

# 6.64.1 Detailed Description

Definition at line 10 of file TakeEvent.h.

# 6.64.2 Constructor & Destructor Documentation

# 6.64.2.1 TakeEvent::TakeEvent (const tibasSpaceEvent & event)

Definition at line 8 of file TakeEvent.cpp.

# **6.64.2.2** TakeEvent::∼TakeEvent ()

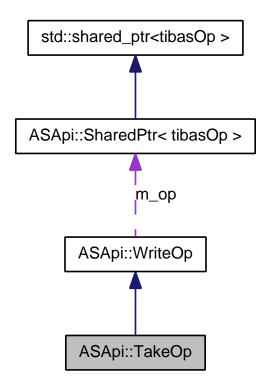
Definition at line 14 of file TakeEvent.cpp.

- TakeEvent.h
- TakeEvent.cpp

# 6.65 ASApi::TakeOp Class Reference

#include <TakeOp.h>

Inherits ASApi::WriteOp.Collaboration diagram for ASApi::TakeOp:



# **Public Member Functions**

• TakeOp (SharedPtr< tibasOp > &op)

# 6.65.1 Detailed Description

Definition at line 9 of file TakeOp.h.

# 6.65.2 Constructor & Destructor Documentation

# 6.65.2.1 TakeOp::TakeOp (SharedPtr< tibasOp > & op)

Definition at line 6 of file TakeOp.cpp.

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

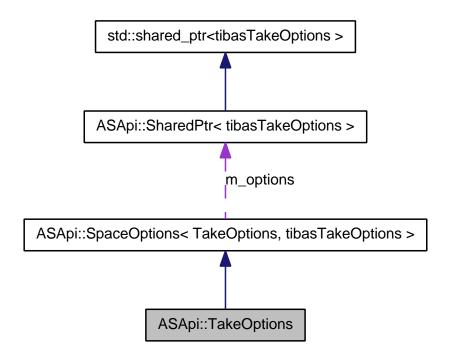
• TakeOp.h

• TakeOp.cpp

# 6.66 ASApi::TakeOptions Class Reference

#include <TakeOptions.h>

Inherits SpaceOptions < TakeOptions, tibasTakeOptions >.Collaboration diagram for ASApi::TakeOptions:



# **Public Member Functions**

- TakeOptions ()
- TakeOptions & setLockWait (long long wait)
- long long getLockWait () const
- TakeOptions & setLock (bool doLock)
- TakeOptions & setUnlock (bool doLock)
- bool isLock () const
- bool isUnlock () const
- TakeOptions & setForget (bool doForget)
- bool isForget () const
- TakeOptions & setRoute (bool doRoute)
- bool isRoute () const

# 6.66.1 Detailed Description

Definition at line 10 of file TakeOptions.h.

# 6.66.2 Constructor & Destructor Documentation

# **6.66.2.1** TakeOptions::TakeOptions()

Definition at line 10 of file TakeOptions.cpp.

# **6.66.3** Member Function Documentation

# 6.66.3.1 long long TakeOptions::getLockWait () const

Definition at line 24 of file TakeOptions.cpp.

# 6.66.3.2 bool TakeOptions::isForget () const

Definition at line 82 of file TakeOptions.cpp.

# 6.66.3.3 bool TakeOptions::isLock () const

Definition at line 44 of file TakeOptions.cpp.

# 6.66.3.4 bool TakeOptions::isRoute () const

Definition at line 104 of file TakeOptions.cpp.

# 6.66.3.5 bool TakeOptions::isUnlock () const

Definition at line 60 of file TakeOptions.cpp.

# 6.66.3.6 TakeOptions & TakeOptions::setForget (bool doForget)

Definition at line 75 of file TakeOptions.cpp.

# 6.66.3.7 TakeOptions & TakeOptions::setLock (bool doLock)

Definition at line 30 of file TakeOptions.cpp.

# 6.66.3.8 TakeOptions & TakeOptions::setLockWait (long long wait)

Definition at line 17 of file TakeOptions.cpp.

# 6.66.3.9 TakeOptions & TakeOptions::setRoute (bool doRoute)

Definition at line 97 of file TakeOptions.cpp.

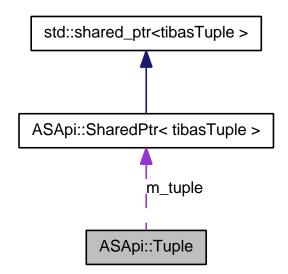
# $\bf 6.66.3.10 \quad Take Options \ \& \ Take Options :: set Unlock \ (bool \ \textit{doLock})$

Definition at line 37 of file TakeOptions.cpp.

- TakeOptions.h
- TakeOptions.cpp

# 6.67 ASApi::Tuple Class Reference

#include <Tuple.h>Collaboration diagram for ASApi::Tuple:



#### **Public Member Functions**

- Tuple ()
- Tuple (SharedPtr< tibasTuple > &tuple)
- Tuple (const tibasTuple &tuple)
- ~Tuple ()
- tibasTuple & get ()
- const tibasTuple & get () const
- bool getBoolean (const std::string &fieldName) const
- char getChar (const std::string &fieldName) const
- short getShort (const std::string &fieldName) const
- int getInt (const std::string &fieldName) const
- long long getLong (const std::string &fieldName) const
- float getFloat (const std::string &fieldName) const
- double getDouble (const std::string &fieldName) const
- std::string getString (const std::string &fieldName) const
   struct timeval getDateTime (const std::string &fieldName) const
- char \* getBlob (const std::string &fieldName, int &length) const
- bool isNull (const std::string &fieldName) const
- bool isNull () const
- Tuple & putBoolean (const std::string &fieldName, bool value)
- Tuple & putChar (const std::string &fieldName, char value)
- Tuple & putShort (const std::string &fieldName, short value)
- Tuple & putInt (const std::string &fieldName, int value)

- Tuple & putLong (const std::string &fieldName, long long value)
- Tuple & putFloat (const std::string &fieldName, float value)
- Tuple & putDouble (const std::string &fieldName, double value)
- Tuple & putString (const std::string &fieldName, const std::string &value)
- Tuple & putDateTime (const std::string &fieldName, const struct timeval &date-Time)
- void remove (const std::string &fieldName) const
- int size () const
- void clear ()
- std::string toString () const
- void serialize (char \*\*data, int \*length) const
- void deserialize (char \*data, int length) const
- bool exists (const std::string &fieldName) const
- std::vector< std::string > getFieldNames () const
- FieldDef::Type getFieldType (const std::string &fieldName) const
- Tuple & putAll (const Tuple &otherTuple)
- bool eval (const std::string &filter) const
- bool operator== (const Tuple &tuple)

# 6.67.1 Detailed Description

Definition at line 22 of file Tuple.h.

# 6.67.2 Constructor & Destructor Documentation

#### **6.67.2.1** Tuple::Tuple ()

Definition at line 15 of file Tuple.cpp.

#### 6.67.2.2 Tuple::Tuple (SharedPtr< tibasTuple > & tuple)

Definition at line 22 of file Tuple.cpp.

# 6.67.2.3 Tuple::Tuple (const tibasTuple & tuple)

Definition at line 28 of file Tuple.cpp.

# **6.67.2.4 Tuple::∼Tuple** ()

Definition at line 38 of file Tuple.cpp.

# **6.67.3** Member Function Documentation

# **6.67.3.1** void Tuple::clear ()

Definition at line 248 of file Tuple.cpp.

# 6.67.3.2 void Tuple::deserialize (char \* data, int length) const

Definition at line 268 of file Tuple.cpp.

# 6.67.3.3 bool Tuple::eval (const std::string & filter) const

Definition at line 312 of file Tuple.cpp.

# 6.67.3.4 bool Tuple::exists (const std::string & fieldName) const

Definition at line 274 of file Tuple.cpp.

# 6.67.3.5 const tibasTuple & Tuple::get () const

Definition at line 44 of file Tuple.cpp.

# 6.67.3.6 tibasTuple & Tuple::get ()

Definition at line 50 of file Tuple.cpp.

# 6.67.3.7 char \* Tuple::getBlob (const std::string & fieldName, int & length) const

Definition at line 137 of file Tuple.cpp.

# 6.67.3.8 bool Tuple::getBoolean (const std::string & fieldName) const

Definition at line 56 of file Tuple.cpp.

# 6.67.3.9 char Tuple::getChar (const std::string & fieldName) const

Definition at line 71 of file Tuple.cpp.

# 6.67.3.10 struct timeval Tuple::getDateTime (const std::string & fieldName) const [read]

Definition at line 126 of file Tuple.cpp.

# 6.67.3.11 double Tuple::getDouble (const std::string & fieldName) const

Definition at line 111 of file Tuple.cpp.

# $\textbf{6.67.3.12} \quad vector {<} \ string {>} \ Tuple :: getFieldNames () \ const$

Definition at line 289 of file Tuple.cpp.

# 6.67.3.13 FieldDef::Type Tuple::getFieldType (const std::string & fieldName) const

Definition at line 297 of file Tuple.cpp.

# 6.67.3.14 float Tuple::getFloat (const std::string & fieldName) const

Definition at line 103 of file Tuple.cpp.

# 6.67.3.15 int Tuple::getInt (const std::string & fieldName) const

Definition at line 87 of file Tuple.cpp.

#### 6.67.3.16 long long Tuple::getLong (const std::string & fieldName) const

Definition at line 95 of file Tuple.cpp.

# 6.67.3.17 short Tuple::getShort (const std::string & fieldName) const

Definition at line 79 of file Tuple.cpp.

# 6.67.3.18 string Tuple::getString (const std::string & fieldName) const

Definition at line 119 of file Tuple.cpp.

#### 6.67.3.19 bool Tuple::isNull () const

Definition at line 160 of file Tuple.cpp.

# 6.67.3.20 bool Tuple::isNull (const std::string & fieldName) const

Definition at line 145 of file Tuple.cpp.

#### 6.67.3.21 bool Tuple::operator== (const Tuple & tuple)

Definition at line 328 of file Tuple.cpp.

# 6.67.3.22 Tuple & Tuple::putAll (const Tuple & otherTuple)

Definition at line 305 of file Tuple.cpp.

# 6.67.3.23 Tuple & Tuple::putBoolean (const std::string & fieldName, bool value)

Definition at line 166 of file Tuple.cpp.

#### 6.67.3.24 Tuple & Tuple::putChar (const std::string & fieldName, char value)

Definition at line 173 of file Tuple.cpp.

# 6.67.3.25 Tuple & Tuple::putDateTime (const std::string & fieldName, const struct timeval & dateTime)

Definition at line 223 of file Tuple.cpp.

# 6.67.3.26 Tuple & Tuple::putDouble (const std::string & fieldName, double value)

Definition at line 208 of file Tuple.cpp.

# 6.67.3.27 Tuple & Tuple::putFloat (const std::string & fieldName, float value)

Definition at line 201 of file Tuple.cpp.

# 6.67.3.28 Tuple & Tuple::putInt (const std::string & fieldName, int value)

Definition at line 187 of file Tuple.cpp.

# 6.67.3.29 Tuple & Tuple::putLong (const std::string & fieldName, long long value)

Definition at line 194 of file Tuple.cpp.

# 6.67.3.30 Tuple & Tuple::putShort (const std::string & fieldName, short value)

Definition at line 180 of file Tuple.cpp.

# 6.67.3.31 Tuple & Tuple::putString (const std::string & fieldName, const std::string & value)

Definition at line 215 of file Tuple.cpp.

### 6.67.3.32 void Tuple::remove (const std::string & fieldName) const

Definition at line 234 of file Tuple.cpp.

## 6.67.3.33 void Tuple::serialize (char \*\* data, int \* length) const

Definition at line 262 of file Tuple.cpp.

### **6.67.3.34** int Tuple::size () const

Definition at line 240 of file Tuple.cpp.

### 6.67.3.35 string Tuple::toString () const

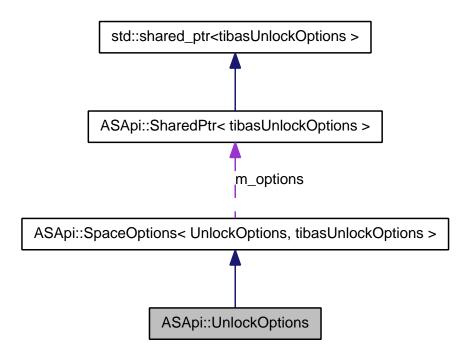
Definition at line 254 of file Tuple.cpp.

- Tuple.h
- Tuple.cpp

## 6.68 ASApi::UnlockOptions Class Reference

#include <UnlockOptions.h>

 $Inherits \ Space Options < Unlock Options, \ tibas Unlock Options > . Collaboration \ diagram \ for \ ASApi:: Unlock Options:$ 



### **Public Member Functions**

- UnlockOptions ()
- UnlockOptions & setLockWait (long long wait)
- long long getLockWait () const

### 6.68.1 Detailed Description

Definition at line 10 of file UnlockOptions.h.

### 6.68.2 Constructor & Destructor Documentation

### 6.68.2.1 UnlockOptions::UnlockOptions ()

Definition at line 10 of file UnlockOptions.cpp.

## **6.68.3** Member Function Documentation

### 6.68.3.1 long long UnlockOptions::getLockWait () const

Definition at line 24 of file UnlockOptions.cpp.

### 6.68.3.2 UnlockOptions & UnlockOptions::setLockWait (long long wait)

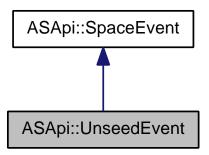
Definition at line 17 of file UnlockOptions.cpp.

- UnlockOptions.h
- UnlockOptions.cpp

## 6.69 ASApi::UnseedEvent Class Reference

#include <UnseedEvent.h>

Inherits ASApi::SpaceEvent.Collaboration diagram for ASApi::UnseedEvent:



#### **Public Member Functions**

- UnseedEvent (const tibasSpaceEvent &event)
- ∼UnseedEvent ()

### **6.69.1 Detailed Description**

Definition at line 10 of file UnseedEvent.h.

### 6.69.2 Constructor & Destructor Documentation

#### 6.69.2.1 UnseedEvent::UnseedEvent (const tibasSpaceEvent & event)

Definition at line 8 of file UnseedEvent.cpp.

### 6.69.2.2 UnseedEvent::~UnseedEvent ()

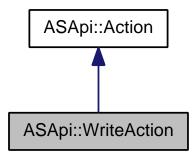
Definition at line 14 of file UnseedEvent.cpp.

- UnseedEvent.h
- UnseedEvent.cpp

## 6.70 ASApi::WriteAction Class Reference

#include <WriteAction.h>

Inherits ASApi::Action.Collaboration diagram for ASApi::WriteAction:



### **Public Member Functions**

- WriteAction (const tibasAction &action)
- std::vector< WriteOp > getOps () const

### 6.70.1 Detailed Description

Definition at line 12 of file WriteAction.h.

### 6.70.2 Constructor & Destructor Documentation

#### 6.70.2.1 WriteAction::WriteAction (const tibasAction & action)

Definition at line 9 of file WriteAction.cpp.

### **6.70.3** Member Function Documentation

#### 6.70.3.1 vector < WriteOp > WriteAction::getOps () const

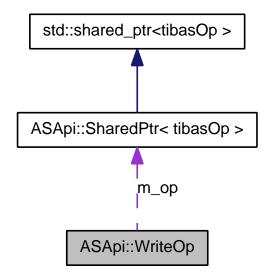
Definition at line 16 of file WriteAction.cpp.

- WriteAction.h
- WriteAction.cpp

## 6.71 ASApi::WriteOp Class Reference

#include <WriteOp.h>

Inherited by ASApi::PutOp, and ASApi::TakeOp.Collaboration diagram for ASApi::WriteOp:



## **Public Types**

• typedef tibas\_opType Type

## **Public Member Functions**

- WriteOp (SharedPtr< tibasOp > &op)
- ~WriteOp ()
- Type getType () const
- Tuple getTuple () const

### **Protected Attributes**

• SharedPtr< tibasOp > m\_op

## **6.71.1 Detailed Description**

Definition at line 11 of file WriteOp.h.

## **6.71.2** Member Typedef Documentation

#### 6.71.2.1 typedef tibas\_opType ASApi::WriteOp::Type

Definition at line 14 of file WriteOp.h.

#### 6.71.3 Constructor & Destructor Documentation

#### 6.71.3.1 WriteOp::WriteOp (SharedPtr< tibasOp > & op)

Definition at line 10 of file WriteOp.cpp.

### 6.71.3.2 WriteOp::~WriteOp()

Definition at line 17 of file WriteOp.cpp.

#### **6.71.4** Member Function Documentation

#### 6.71.4.1 Tuple WriteOp::getTuple () const

Definition at line 30 of file WriteOp.cpp.

### 6.71.4.2 WriteOp::Type WriteOp::getType () const

Definition at line 22 of file WriteOp.cpp.

### **6.71.5** Member Data Documentation

### 6.71.5.1 SharedPtr<tibasOp> ASApi::WriteOp::m\_op [protected]

Definition at line 22 of file WriteOp.h.

- WriteOp.h
- WriteOp.cpp

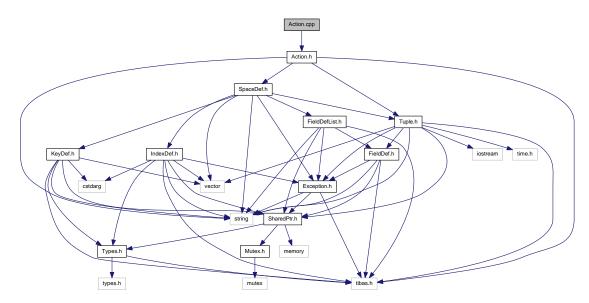
# **Chapter 7**

# **File Documentation**

## 7.1 Action.cpp File Reference

#include "Action.h"

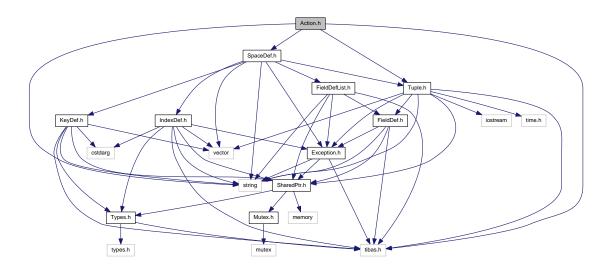
Include dependency graph for Action.cpp:



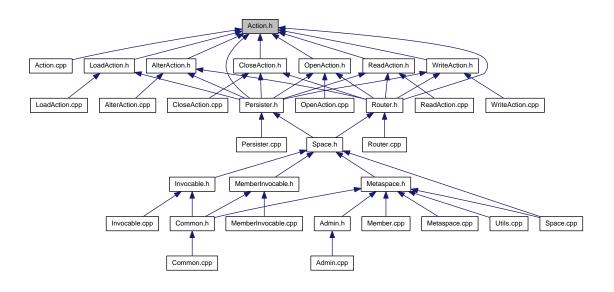
## 7.2 Action.h File Reference

```
#include <string>
#include "tibas.h"
#include "Tuple.h"
#include "SpaceDef.h"
```

Include dependency graph for Action.h:



This graph shows which files directly or indirectly include this file:



## Classes

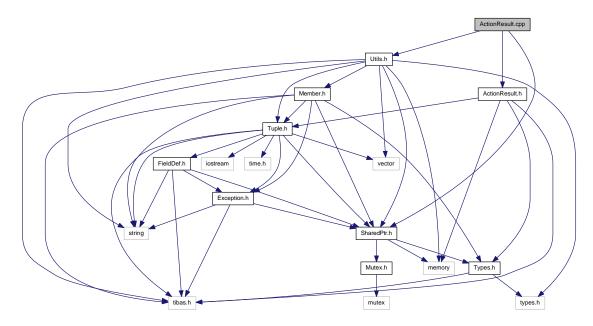
• class ASApi::Action

## Namespaces

## 7.3 ActionResult.cpp File Reference

#include "ActionResult.h"
#include "Utils.h"
#include "SharedPtr.h"

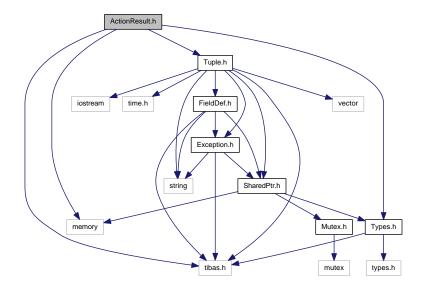
Include dependency graph for ActionResult.cpp:



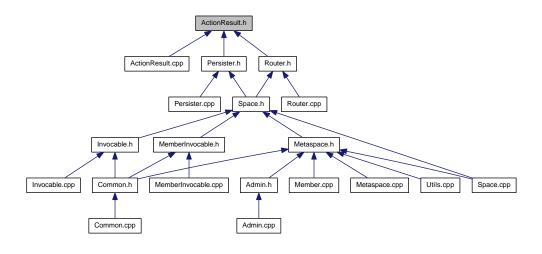
## 7.4 ActionResult.h File Reference

```
#include <memory>
#include "tibas.h"
#include "Tuple.h"
#include "Types.h"
```

Include dependency graph for ActionResult.h:



This graph shows which files directly or indirectly include this file:



## Classes

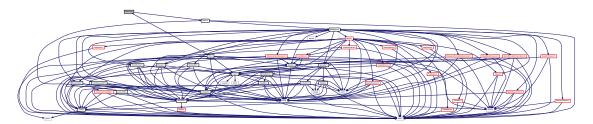
• class ASApi::ActionResult

## Namespaces

## 7.5 Admin.cpp File Reference

#include "Admin.h"
#include "Utils.h"

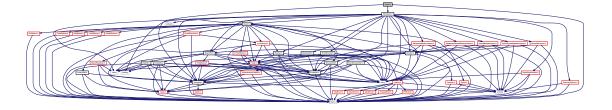
Include dependency graph for Admin.cpp:



## 7.6 Admin.h File Reference

```
#include "tibas.h"
#include "Metaspace.h"
#include "SharedPtr.h"
```

Include dependency graph for Admin.h:



This graph shows which files directly or indirectly include this file:



## Classes

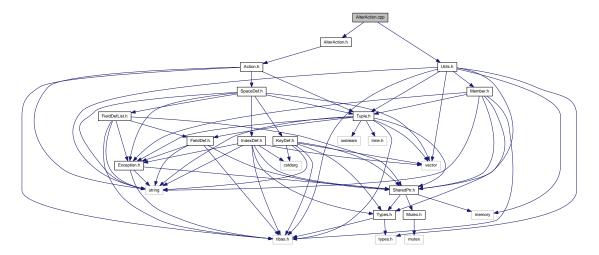
• class ASApi::Admin

## **Namespaces**

## 7.7 AlterAction.cpp File Reference

#include "AlterAction.h"
#include "Utils.h"

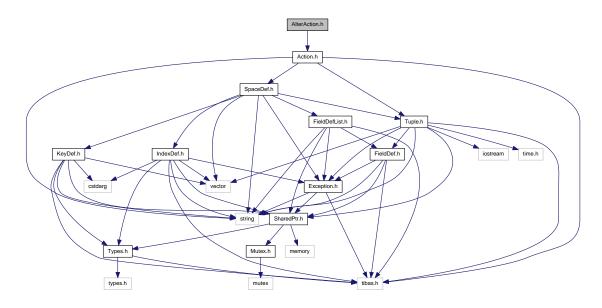
Include dependency graph for AlterAction.cpp:



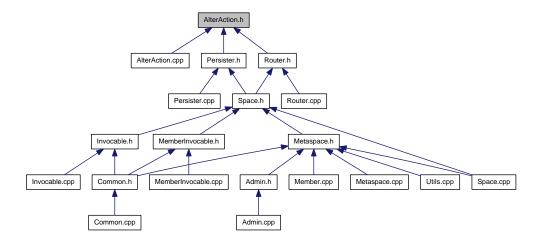
## 7.8 AlterAction.h File Reference

#include "Action.h"

Include dependency graph for AlterAction.h:



This graph shows which files directly or indirectly include this file:



## Classes

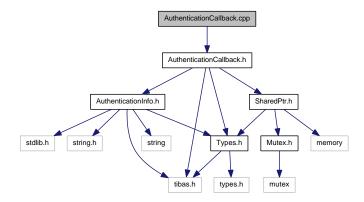
• class ASApi::AlterAction

## Namespaces

## 7.9 AuthenticationCallback.cpp File Reference

#include "AuthenticationCallback.h"

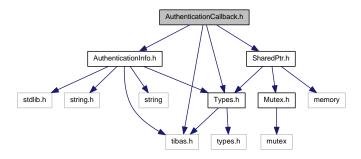
Include dependency graph for AuthenticationCallback.cpp:



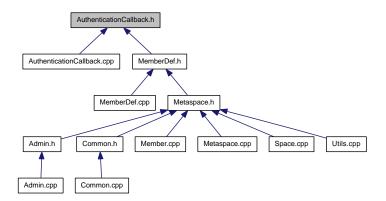
## 7.10 AuthenticationCallback.h File Reference

```
#include "SharedPtr.h"
#include "tibas.h"
#include "AuthenticationInfo.h"
#include "Types.h"
```

Include dependency graph for AuthenticationCallback.h:



This graph shows which files directly or indirectly include this file:



#### Classes

- class ASApi::AuthenticationCallback
- struct ASApi::AuthenticationCallback::CClosure

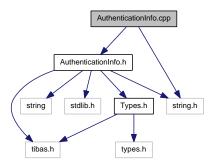
## **Namespaces**

## 7.11 AuthenticationInfo.cpp File Reference

#include "AuthenticationInfo.h"

#include <string.h>

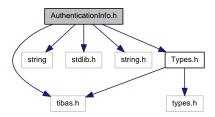
Include dependency graph for AuthenticationInfo.cpp:



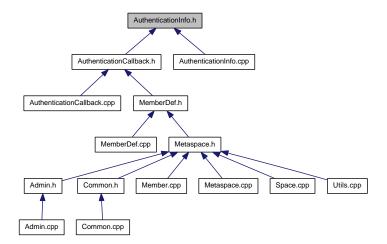
## 7.12 AuthenticationInfo.h File Reference

```
#include "tibas.h"
#include <string>
#include <stdlib.h>
#include <string.h>
#include "Types.h"
```

Include dependency graph for AuthenticationInfo.h:



This graph shows which files directly or indirectly include this file:



## Classes

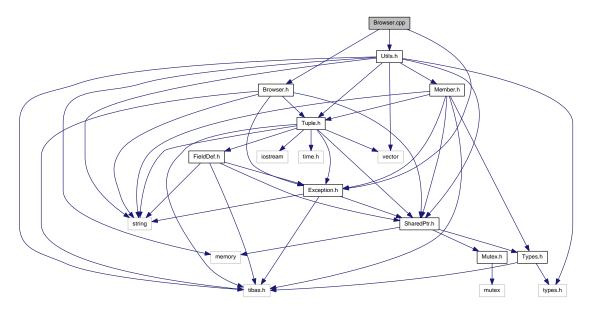
• class ASApi::AuthenticationInfo

## **Namespaces**

## 7.13 Browser.cpp File Reference

#include "Browser.h"
#include "Exception.h"
#include "Utils.h"

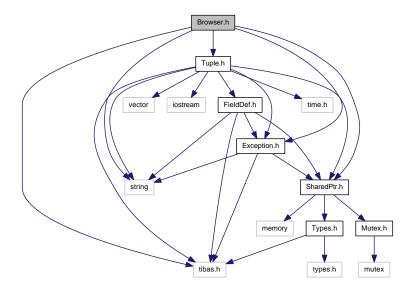
Include dependency graph for Browser.cpp:



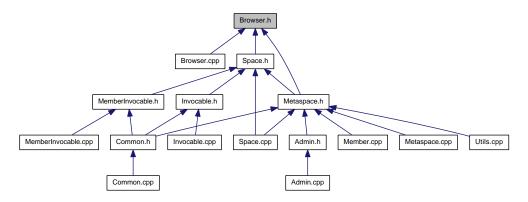
## 7.14 Browser.h File Reference

```
#include <string>
#include "SharedPtr.h"
#include "tibas.h"
#include "Exception.h"
#include "Tuple.h"
```

Include dependency graph for Browser.h:



This graph shows which files directly or indirectly include this file:



### Classes

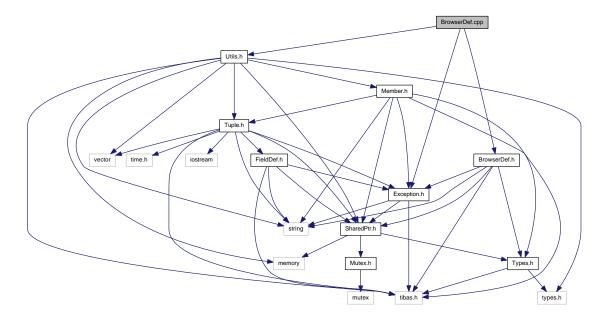
• class ASApi::Browser

## Namespaces

## 7.15 BrowserDef.cpp File Reference

```
#include "BrowserDef.h"
#include "Exception.h"
#include "Utils.h"
```

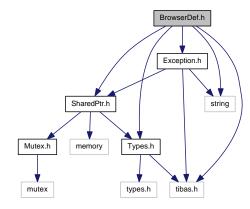
Include dependency graph for BrowserDef.cpp:



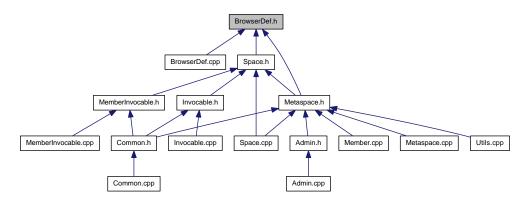
## 7.16 BrowserDef.h File Reference

```
#include <string>
#include "SharedPtr.h"
#include "tibas.h"
#include "Exception.h"
#include "Types.h"
```

Include dependency graph for BrowserDef.h:



This graph shows which files directly or indirectly include this file:



### Classes

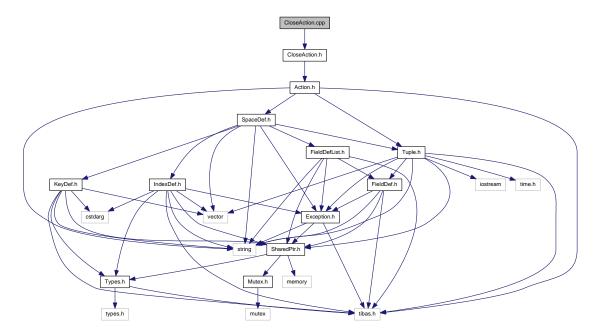
• class ASApi::BrowserDef

## **Namespaces**

## 7.17 CloseAction.cpp File Reference

#include "CloseAction.h"

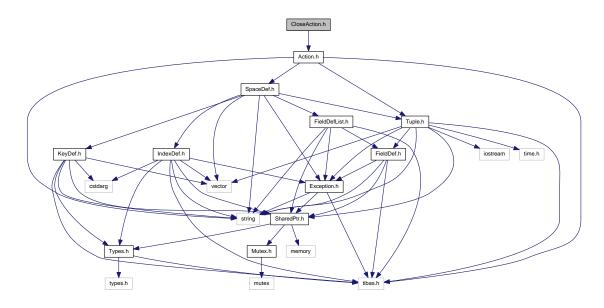
Include dependency graph for CloseAction.cpp:



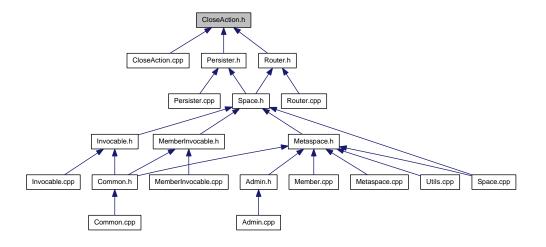
## 7.18 CloseAction.h File Reference

#include "Action.h"

Include dependency graph for CloseAction.h:



This graph shows which files directly or indirectly include this file:



## Classes

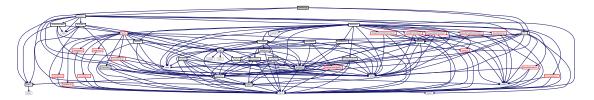
• class ASApi::CloseAction

## Namespaces

## 7.19 Common.cpp File Reference

```
#include "Common.h"
#include "Exception.h"
#include "Utils.h"
#include "Types.h"
```

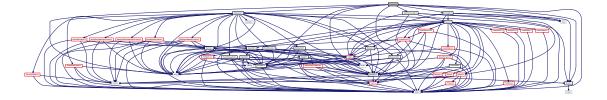
Include dependency graph for Common.cpp:



## 7.20 Common.h File Reference

```
#include <string>
#include <vector>
#include <map>
#include "tibas.h"
#include "Exception.h"
#include "Metaspace.h"
#include "Invocable.h"
#include "MemberInvocable.h"
#include "Mutex.h"
#include "SharedPtr.h"
```

Include dependency graph for Common.h:



This graph shows which files directly or indirectly include this file:



## **Namespaces**

- namespace ASApi
- namespace ASApi::Common

#### **Functions**

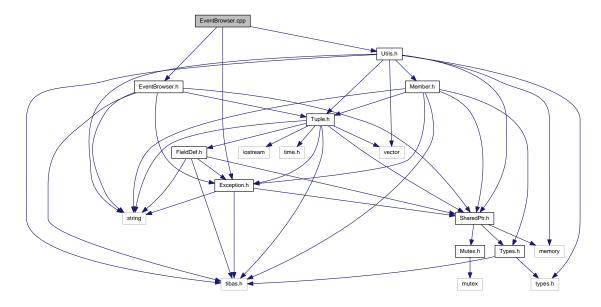
- void AS\_CPP\_API ASApi::Common::setLogLevel (const LogLevel &logLevel)
- void AS\_CPP\_API ASApi::Common::setSecurityLogLevel (const LogLevel &logLevel)
- LogLevel AS\_CPP\_API ASApi::Common::getLogLevel ()

- LogLevel AS\_CPP\_API ASApi::Common::getSecurityLogLevel ()
- void AS\_CPP\_API ASApi::Common::setFileLogging (const LogLevel &logLevel)
- void AS\_CPP\_API ASApi::Common::setFileLogging (const std::string &file-Name, const LogLevel &logLevel)
- void AS\_CPP\_API ASApi::Common::setFileLogging (const std::string &logDir, const std::string &fileName, const LogLevel &logLevel)
- void AS\_CPP\_API ASApi::Common::setEventLogging (const std::string &file-Name, const LogLevel &logLevel)
- Metaspace AS\_CPP\_API ASApi::Common::getMetaspace (const std::string &metaspaceName)
- Metaspace AS\_CPP\_API ASApi::Common::connectMetaspace (const std::string &metaspaceName, const MemberDef &memberDef)
- std::vector< std::string > AS\_CPP\_API AS-Api::Common::getMetaspaceNames ()
- void AS\_CPP\_API ASApi::Common::setInvocable (const std::string &alias, Invocable::Creator creator)
- void AS\_CPP\_API ASApi::Common::setInvocable (const std::string &alias, SharedPtr< Invocable > invocable)
- void AS\_CPP\_API ASApi::Common::setMemberInvocable (const std::string &alias, MemberInvocable::Creator creator)
- void AS\_CPP\_API ASApi::Common::setMemberInvocable (const std::string &alias, SharedPtr< MemberInvocable > memberInvocable)
- std::vector< std::string > AS\_CPP\_API ASApi::Common::getInvocableAliases
   ()
- std::vector< std::string > AS\_CPP\_API AS-Api::Common::getMemberInvocableAliases ()
- void AS\_CPP\_API ASApi::Common::removeInvocable (const std::string &alias)
- void AS\_CPP\_API ASApi::Common::removeMemberInvocable (const std::string &alias)

## 7.21 EventBrowser.cpp File Reference

#include "EventBrowser.h"
#include "Exception.h"
#include "Utils.h"

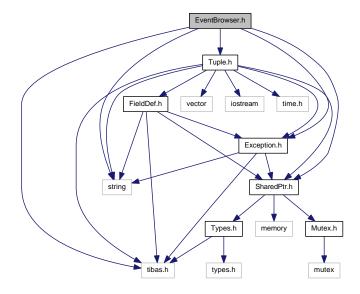
Include dependency graph for EventBrowser.cpp:



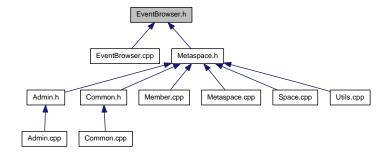
## 7.22 EventBrowser.h File Reference

```
#include <string>
#include "tibas.h"
#include "Exception.h"
#include "Tuple.h"
#include "SharedPtr.h"
```

Include dependency graph for EventBrowser.h:



This graph shows which files directly or indirectly include this file:



### Classes

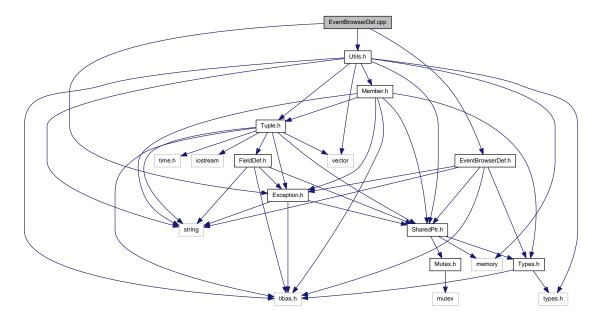
• class ASApi::EventBrowser

## Namespaces

# 7.23 EventBrowserDef.cpp File Reference

```
#include "EventBrowserDef.h"
#include "Exception.h"
#include "Utils.h"
```

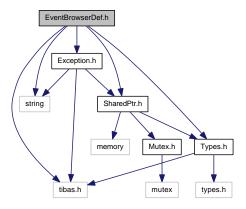
Include dependency graph for EventBrowserDef.cpp:



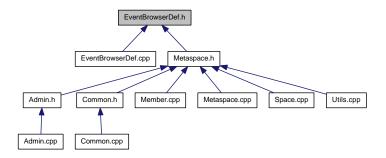
### 7.24 EventBrowserDef.h File Reference

```
#include <string>
#include "tibas.h"
#include "Exception.h"
#include "Types.h"
#include "SharedPtr.h"
```

Include dependency graph for EventBrowserDef.h:



This graph shows which files directly or indirectly include this file:



#### Classes

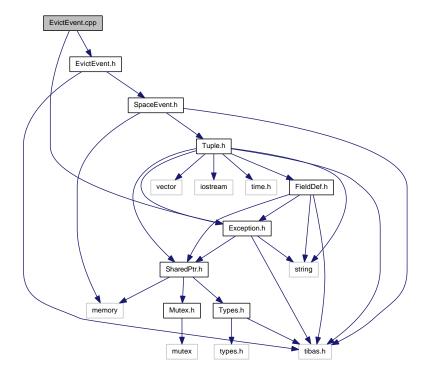
• class ASApi::EventBrowserDef

### **Namespaces**

# 7.25 EvictEvent.cpp File Reference

#include "EvictEvent.h"
#include "Exception.h"

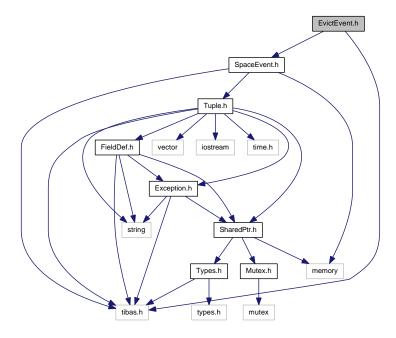
Include dependency graph for EvictEvent.cpp:



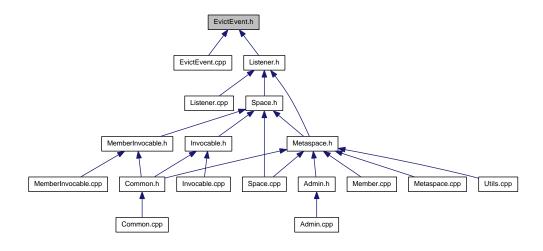
## 7.26 EvictEvent.h File Reference

```
#include "tibas.h"
#include "SpaceEvent.h"
```

Include dependency graph for EvictEvent.h:



This graph shows which files directly or indirectly include this file:



### Classes

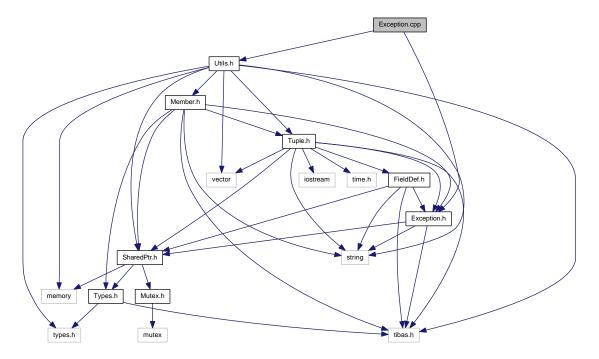
• class ASApi::EvictEvent

## Namespaces

# 7.27 Exception.cpp File Reference

#include "Exception.h"
#include "Utils.h"

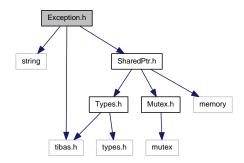
Include dependency graph for Exception.cpp:



## 7.28 Exception.h File Reference

```
#include <string>
#include "tibas.h"
#include "SharedPtr.h"
```

Include dependency graph for Exception.h:



#### Classes

• class ASApi::Exception

#### **Namespaces**

• namespace ASApi

#### **Defines**

• #define AS\_CALL(statement)

#### 7.28.1 Define Documentation

#### 7.28.1.1 #define AS\_CALL(statement)

#### Value:

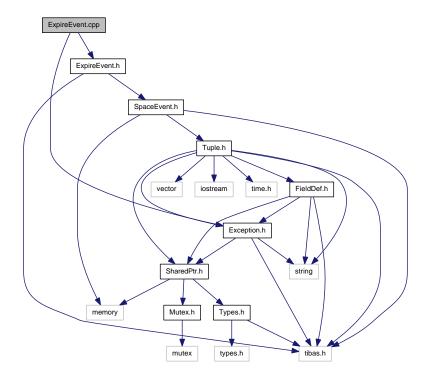
```
{
    tibas_status status = statement; \
    if (status != TIBAS_OK) \
    { \
        throw ASApi::Exception(status); \
    } \
}
```

Definition at line 9 of file Exception.h.

# 7.29 ExpireEvent.cpp File Reference

#include "ExpireEvent.h"
#include "Exception.h"

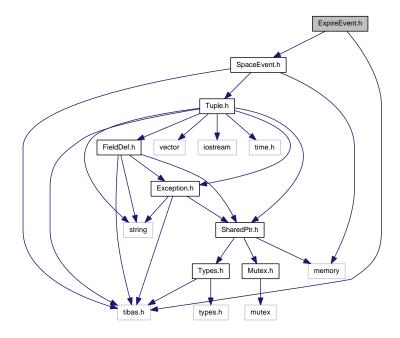
Include dependency graph for ExpireEvent.cpp:



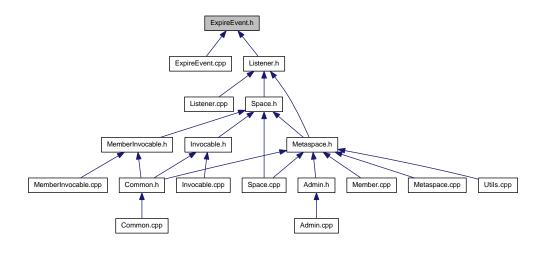
# 7.30 ExpireEvent.h File Reference

#include "tibas.h"
#include "SpaceEvent.h"

Include dependency graph for ExpireEvent.h:



This graph shows which files directly or indirectly include this file:



### Classes

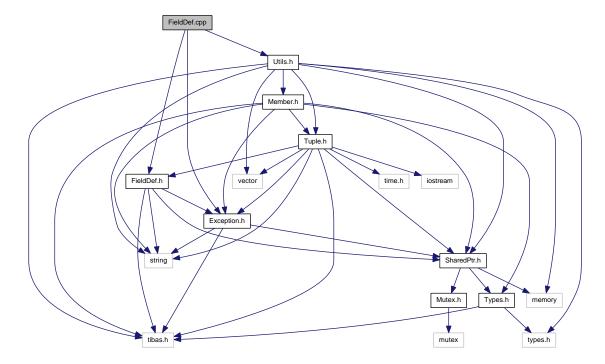
• class ASApi::ExpireEvent

## Namespaces

# 7.31 FieldDef.cpp File Reference

#include "FieldDef.h"
#include "Exception.h"
#include "Utils.h"

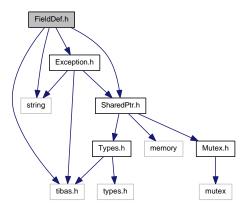
Include dependency graph for FieldDef.cpp:



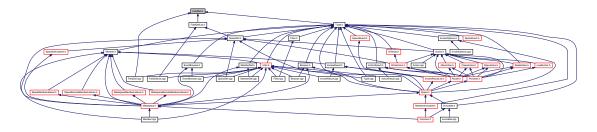
### 7.32 FieldDef.h File Reference

```
#include <string>
#include "tibas.h"
#include "Exception.h"
#include "SharedPtr.h"
```

Include dependency graph for FieldDef.h:



This graph shows which files directly or indirectly include this file:



#### Classes

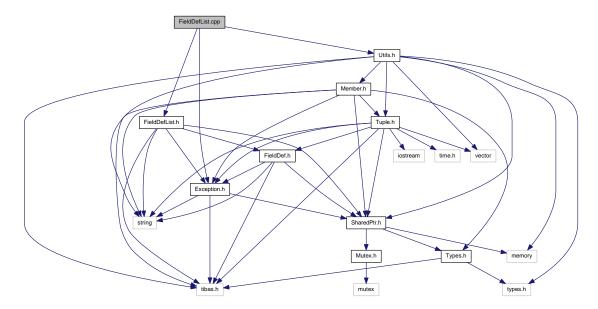
• class ASApi::FieldDef

### **Namespaces**

# 7.33 FieldDefList.cpp File Reference

```
#include "FieldDefList.h"
#include "Exception.h"
#include "Utils.h"
```

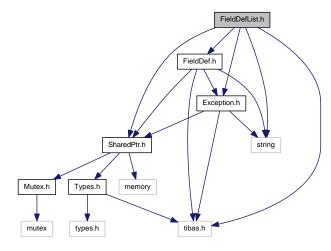
Include dependency graph for FieldDefList.cpp:



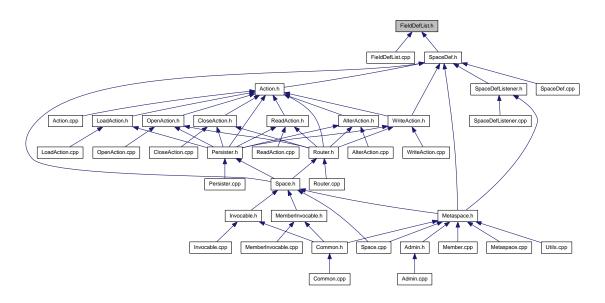
### 7.34 FieldDefList.h File Reference

```
#include <string>
#include "tibas.h"
#include "Exception.h"
#include "FieldDef.h"
#include "SharedPtr.h"
```

Include dependency graph for FieldDefList.h:



This graph shows which files directly or indirectly include this file:



### Classes

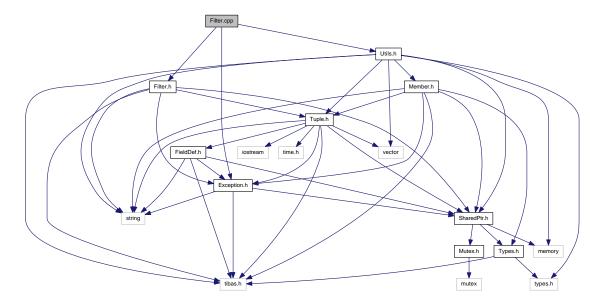
• class ASApi::FieldDefList

## Namespaces

# 7.35 Filter.cpp File Reference

#include "Filter.h"
#include "Exception.h"
#include "Utils.h"

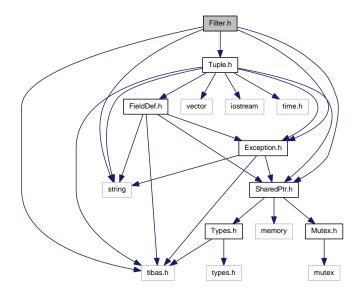
Include dependency graph for Filter.cpp:



## 7.36 Filter.h File Reference

```
#include <string>
#include "tibas.h"
#include "Exception.h"
#include "Tuple.h"
#include "SharedPtr.h"
```

Include dependency graph for Filter.h:



This graph shows which files directly or indirectly include this file:



#### Classes

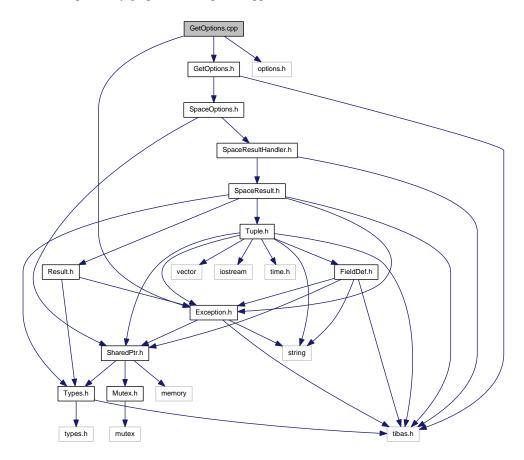
• class ASApi::Filter

### **Namespaces**

# 7.37 GetOptions.cpp File Reference

```
#include "GetOptions.h"
#include "options.h"
#include "Exception.h"
```

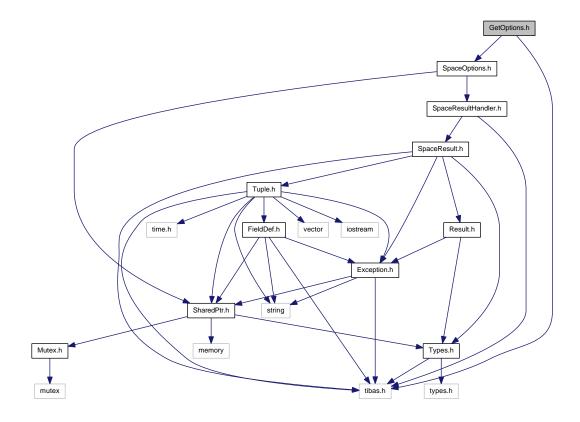
Include dependency graph for GetOptions.cpp:



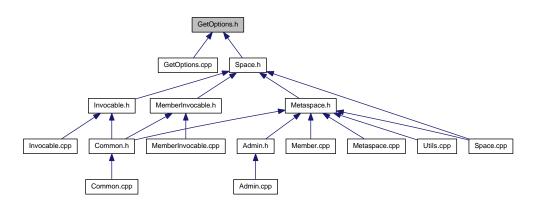
# 7.38 GetOptions.h File Reference

#include "tibas.h"
#include "SpaceOptions.h"

Include dependency graph for GetOptions.h:



This graph shows which files directly or indirectly include this file:



### Classes

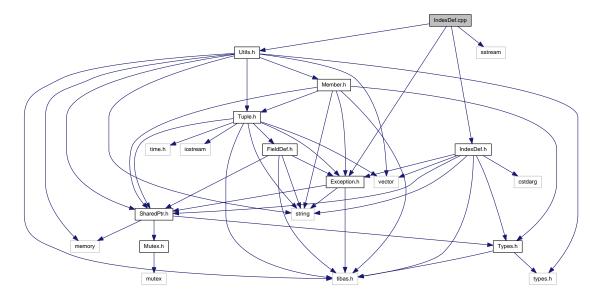
• class ASApi::GetOptions

## Namespaces

# 7.39 IndexDef.cpp File Reference

```
#include "IndexDef.h"
#include "Exception.h"
#include "Utils.h"
#include <sstream>
```

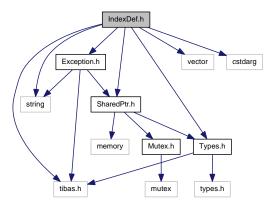
Include dependency graph for IndexDef.cpp:



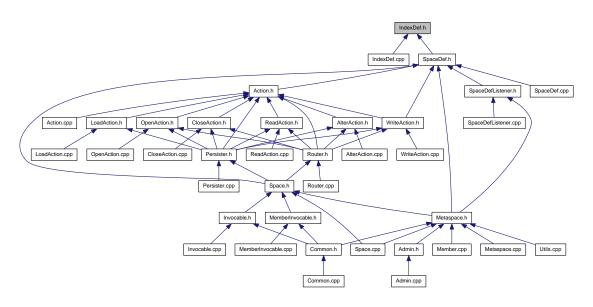
### 7.40 IndexDef.h File Reference

```
#include <string>
#include <vector>
#include <cstdarg>
#include "tibas.h"
#include "Exception.h"
#include "Types.h"
#include "SharedPtr.h"
```

Include dependency graph for IndexDef.h:



This graph shows which files directly or indirectly include this file:



### Classes

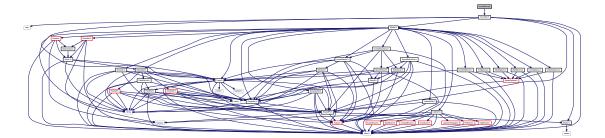
• class ASApi::IndexDef

## Namespaces

# 7.41 Invocable.cpp File Reference

#include "Invocable.h"

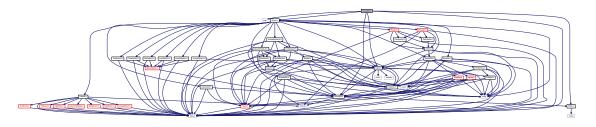
Include dependency graph for Invocable.cpp:



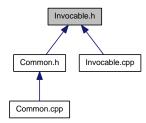
## 7.42 Invocable.h File Reference

```
#include <map>
#include "Space.h"
#include "Tuple.h"
#include "Mutex.h"
#include "tibas.h"
#include "SharedPtr.h"
```

Include dependency graph for Invocable.h:



This graph shows which files directly or indirectly include this file:



#### Classes

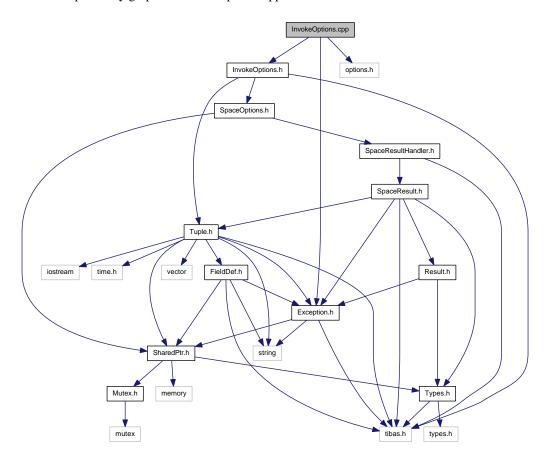
• class ASApi::Invocable

### **Namespaces**

# 7.43 InvokeOptions.cpp File Reference

```
#include "InvokeOptions.h"
#include "options.h"
#include "Exception.h"
```

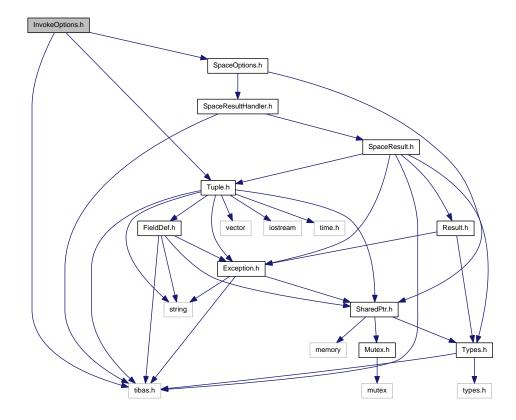
Include dependency graph for InvokeOptions.cpp:



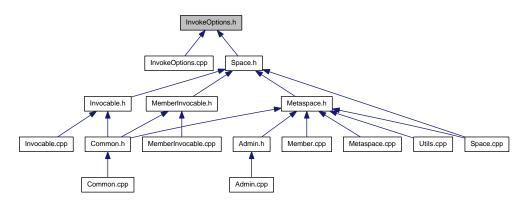
# 7.44 InvokeOptions.h File Reference

```
#include "tibas.h"
#include "SpaceOptions.h"
#include "Tuple.h"
```

Include dependency graph for InvokeOptions.h:



This graph shows which files directly or indirectly include this file:



### Classes

• class ASApi::InvokeOptions

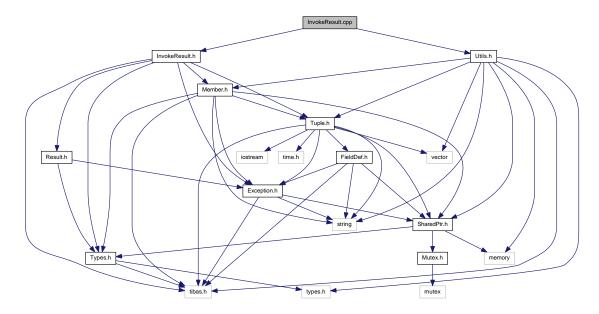
## Namespaces

# 7.45 InvokeResult.cpp File Reference

#include "InvokeResult.h"

#include "Utils.h"

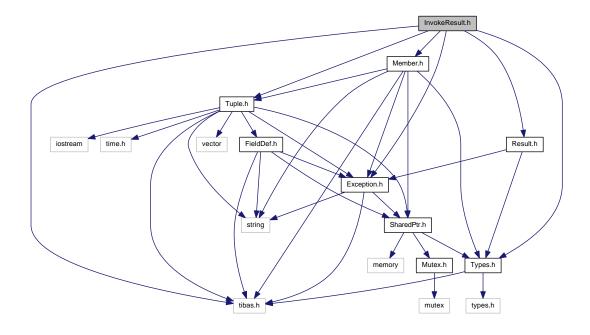
Include dependency graph for InvokeResult.cpp:



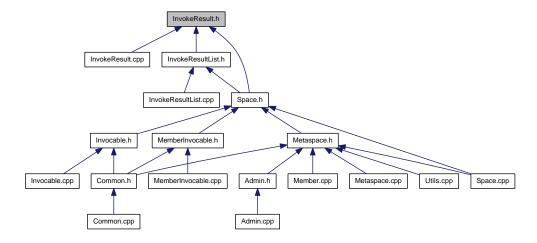
## 7.46 InvokeResult.h File Reference

```
#include "tibas.h"
#include "Exception.h"
#include "Tuple.h"
#include "Types.h"
#include "Result.h"
#include "Member.h"
```

Include dependency graph for InvokeResult.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class ASApi::InvokeResult

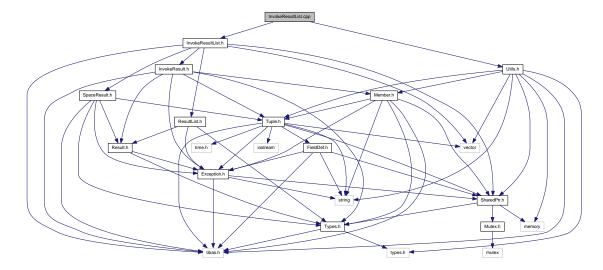
### **Namespaces**

# 7.47 InvokeResultList.cpp File Reference

#include "InvokeResultList.h"

#include "Utils.h"

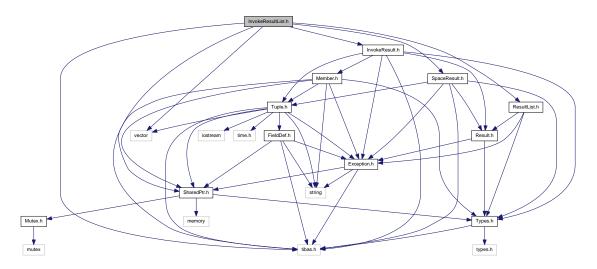
Include dependency graph for InvokeResultList.cpp:



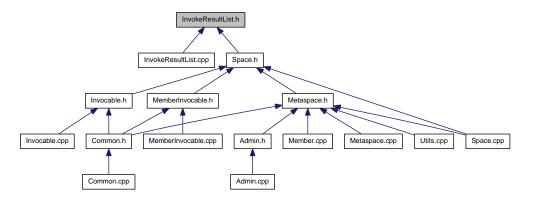
### 7.48 InvokeResultList.h File Reference

```
#include <vector>
#include "tibas.h"
#include "SpaceResult.h"
#include "ResultList.h"
#include "InvokeResult.h"
#include "SharedPtr.h"
```

Include dependency graph for InvokeResultList.h:



This graph shows which files directly or indirectly include this file:



#### Classes

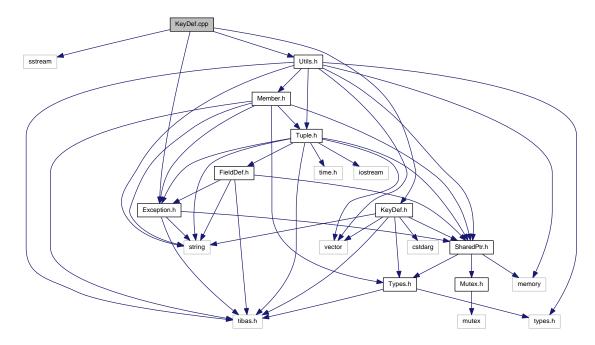
• class ASApi::InvokeResultList

## Namespaces

# 7.49 KeyDef.cpp File Reference

```
#include <sstream>
#include "KeyDef.h"
#include "Exception.h"
#include "Utils.h"
```

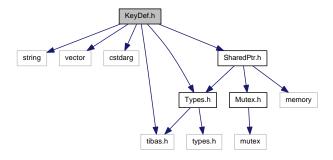
Include dependency graph for KeyDef.cpp:



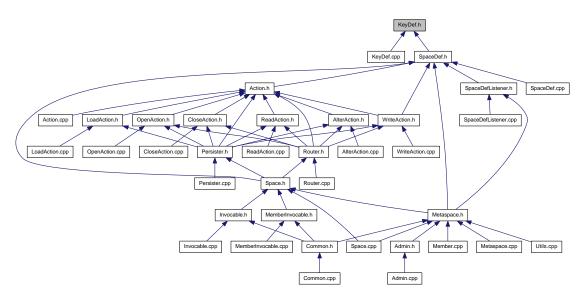
# 7.50 KeyDef.h File Reference

```
#include <string>
#include <vector>
#include <cstdarg>
#include "tibas.h"
#include "Types.h"
#include "SharedPtr.h"
```

Include dependency graph for KeyDef.h:



This graph shows which files directly or indirectly include this file:



#### Classes

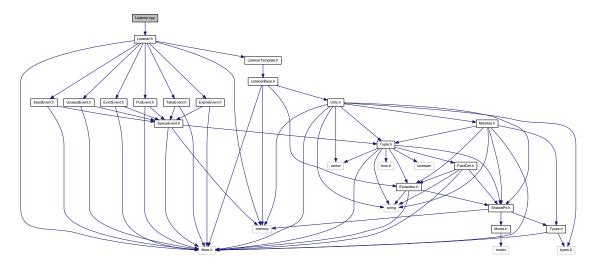
• class ASApi::KeyDef

# Namespaces

# 7.51 Listener.cpp File Reference

#include "Listener.h"

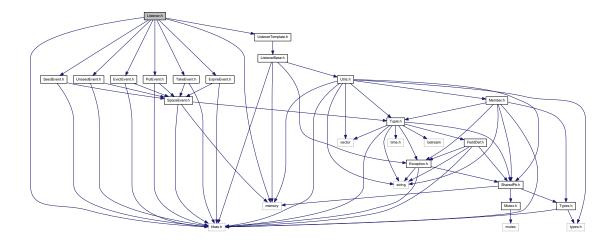
Include dependency graph for Listener.cpp:



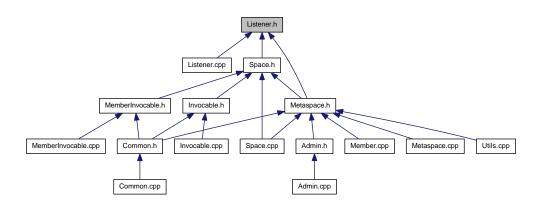
#### 7.52 Listener.h File Reference

```
#include "tibas.h"
#include <memory>
#include "PutEvent.h"
#include "TakeEvent.h"
#include "ExpireEvent.h"
#include "SeedEvent.h"
#include "UnseedEvent.h"
#include "EvictEvent.h"
#include "ListenerTemplate.h"
```

#### Include dependency graph for Listener.h:



This graph shows which files directly or indirectly include this file:



#### Classes

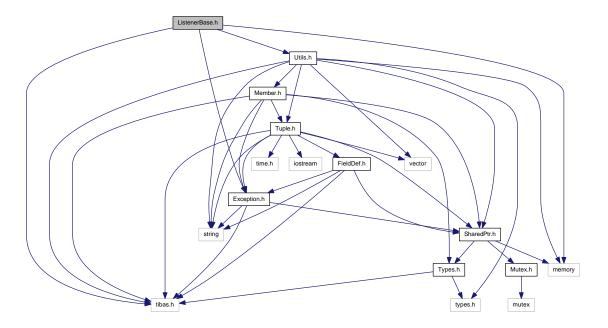
• class ASApi::Listener

# Namespaces

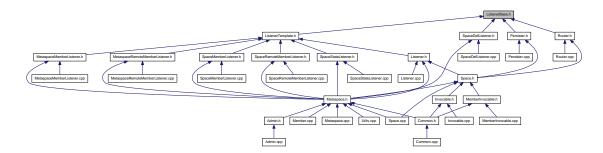
## 7.53 ListenerBase.h File Reference

```
#include "tibas.h"
#include "Utils.h"
#include "Exception.h"
#include <memory>
```

Include dependency graph for ListenerBase.h:



This graph shows which files directly or indirectly include this file:



#### Classes

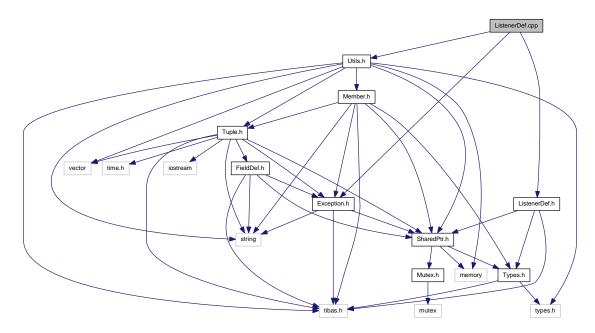
• class ASApi::ListenerBase< T >

# Namespaces

# 7.54 ListenerDef.cpp File Reference

#include "ListenerDef.h"
#include "Exception.h"
#include "Utils.h"

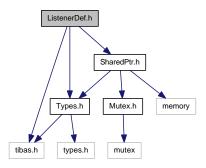
Include dependency graph for ListenerDef.cpp:



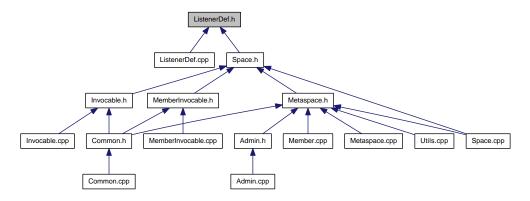
#### 7.55 ListenerDef.h File Reference

```
#include "tibas.h"
#include "Types.h"
#include "SharedPtr.h"
```

Include dependency graph for ListenerDef.h:



This graph shows which files directly or indirectly include this file:



#### Classes

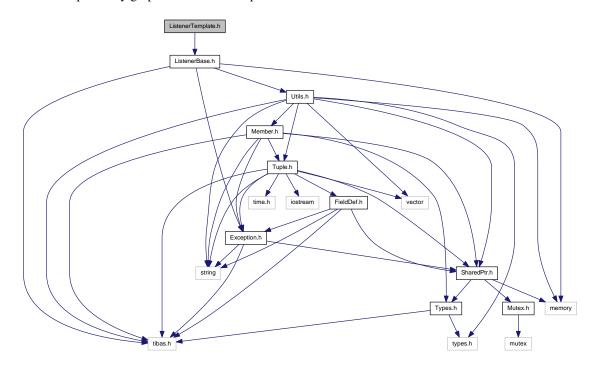
• class ASApi::ListenerDef

#### **Namespaces**

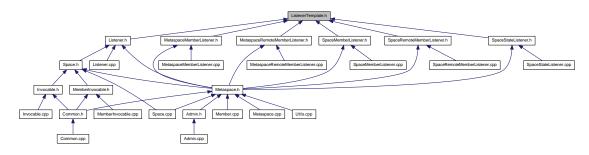
# 7.56 ListenerTemplate.h File Reference

#include "ListenerBase.h"

Include dependency graph for ListenerTemplate.h:



This graph shows which files directly or indirectly include this file:



### Classes

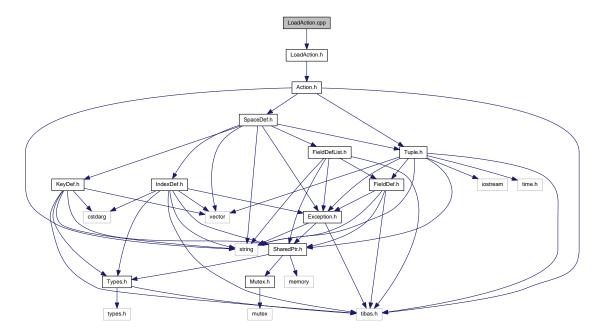
 $\bullet \ class \ ASApi::ListenerTemplate < T > \\$ 

## Namespaces

# 7.57 LoadAction.cpp File Reference

#include "LoadAction.h"

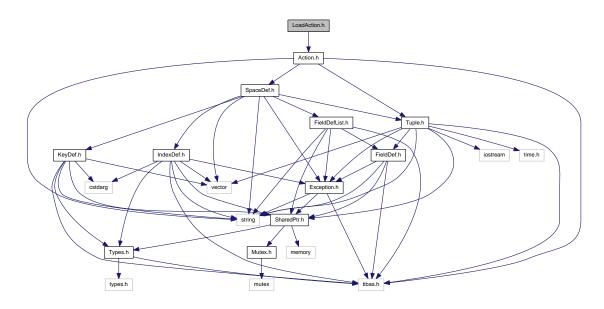
Include dependency graph for LoadAction.cpp:



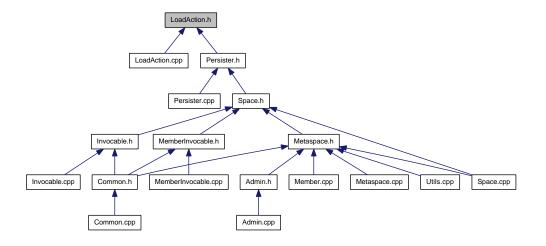
## 7.58 LoadAction.h File Reference

#include "Action.h"

Include dependency graph for LoadAction.h:



This graph shows which files directly or indirectly include this file:



#### Classes

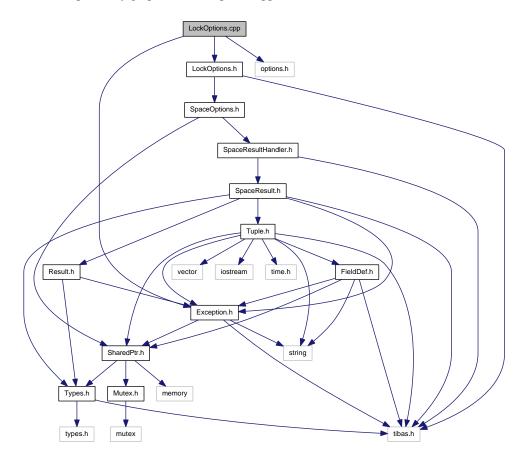
• class ASApi::LoadAction

# Namespaces

# 7.59 LockOptions.cpp File Reference

```
#include "LockOptions.h"
#include "options.h"
#include "Exception.h"
```

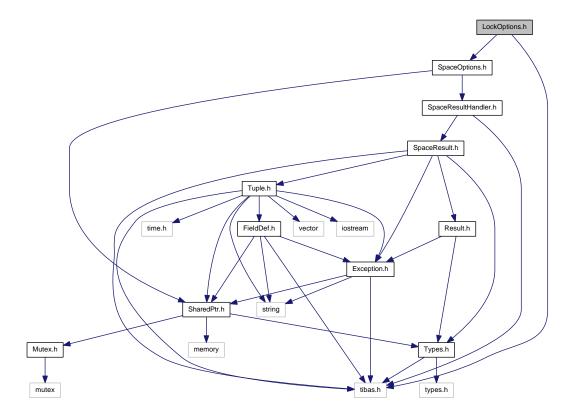
Include dependency graph for LockOptions.cpp:



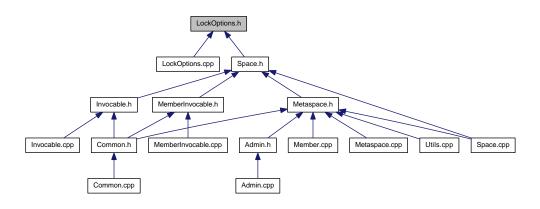
# 7.60 LockOptions.h File Reference

```
#include "tibas.h"
#include "SpaceOptions.h"
```

Include dependency graph for LockOptions.h:



This graph shows which files directly or indirectly include this file:



#### Classes

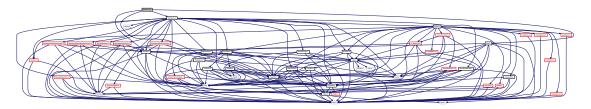
• class ASApi::LockOptions

# Namespaces

# 7.61 Member.cpp File Reference

```
#include "Member.h"
#include "Exception.h"
#include "Metaspace.h"
#include "Utils.h"
```

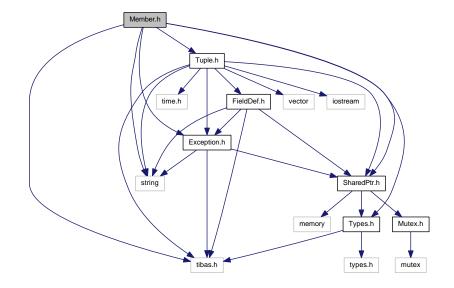
Include dependency graph for Member.cpp:



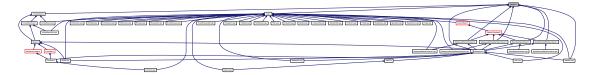
## 7.62 Member.h File Reference

```
#include <string>
#include "tibas.h"
#include "Exception.h"
#include "Tuple.h"
#include "Types.h"
#include "SharedPtr.h"
```

Include dependency graph for Member.h:



This graph shows which files directly or indirectly include this file:



#### Classes

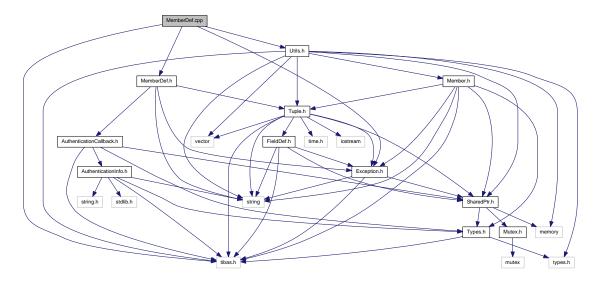
• class ASApi::Member

#### **Namespaces**

# 7.63 MemberDef.cpp File Reference

```
#include "MemberDef.h"
#include "Exception.h"
#include "Utils.h"
#include "tibas.h"
```

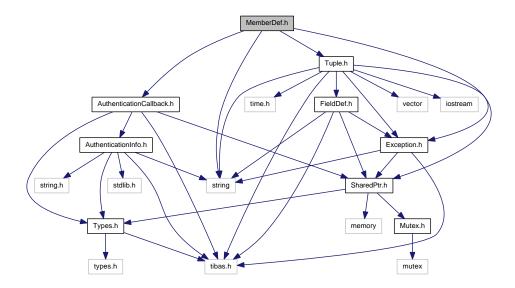
Include dependency graph for MemberDef.cpp:



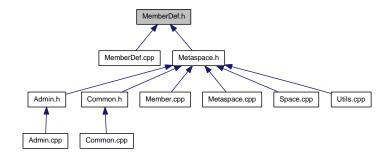
## 7.64 MemberDef.h File Reference

```
#include <string>
#include "Tuple.h"
#include "Exception.h"
#include "AuthenticationCallback.h"
```

Include dependency graph for MemberDef.h:



This graph shows which files directly or indirectly include this file:



#### Classes

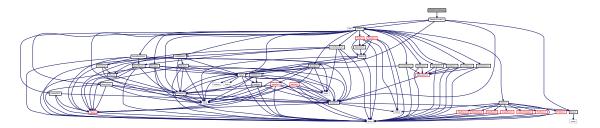
• class ASApi::MemberDef

# Namespaces

# 7.65 MemberInvocable.cpp File Reference

#include "MemberInvocable.h"

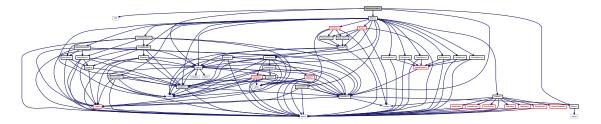
Include dependency graph for MemberInvocable.cpp:



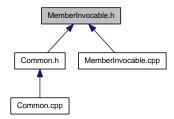
#### 7.66 MemberInvocable.h File Reference

```
#include <map>
#include "Tuple.h"
#include "Space.h"
#include "Mutex.h"
#include "SharedPtr.h"
```

Include dependency graph for MemberInvocable.h:



This graph shows which files directly or indirectly include this file:



#### Classes

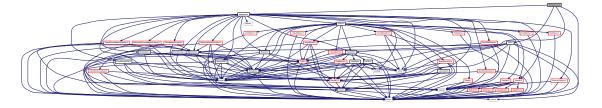
• class ASApi::MemberInvocable

#### **Namespaces**

# 7.67 Metaspace.cpp File Reference

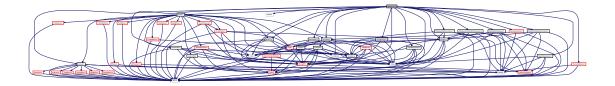
```
#include "Metaspace.h"
#include "Exception.h"
#include "Utils.h"
#include "tibas.h"
```

Include dependency graph for Metaspace.cpp:



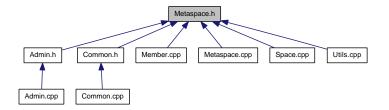
# 7.68 Metaspace.h File Reference

```
#include <string>
#include <cstdarg>
#include <vector>
#include <sstream>
#include "Member.h"
#include "MemberDef.h"
#include "SpaceDef.h"
#include "Space.h"
#include "Browser.h"
#include "BrowserDef.h"
#include "EventBrowser.h"
#include "EventBrowserDef.h"
#include "Listener.h"
#include "MetaspaceMemberListener.h"
#include "MetaspaceRemoteMemberListener.h"
#include "SpaceMemberListener.h"
#include "SpaceRemoteMemberListener.h"
#include "SpaceStateListener.h"
#include "SpaceDefListener.h"
#include "RecoveryOptions.h"
#include "SharedPtr.h"
```



Include dependency graph for Metaspace.h:

This graph shows which files directly or indirectly include this file:



#### Classes

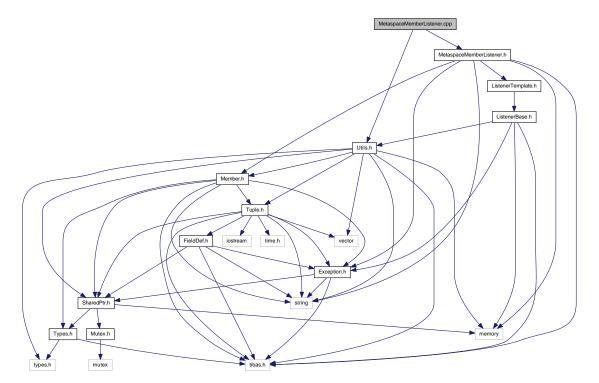
• class ASApi::Metaspace

## **Namespaces**

# 7.69 MetaspaceMemberListener.cpp File Reference

#include "MetaspaceMemberListener.h"
#include "Utils.h"

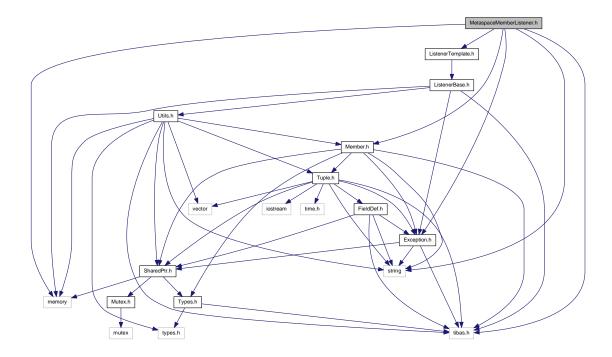
Include dependency graph for MetaspaceMemberListener.cpp:



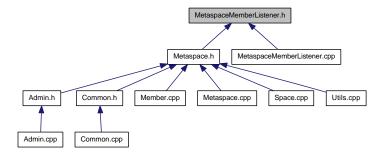
# 7.70 MetaspaceMemberListener.h File Reference

```
#include "tibas.h"
#include "Exception.h"
#include <memory>
#include <string>
#include "ListenerTemplate.h"
#include "Member.h"
```

Include dependency graph for MetaspaceMemberListener.h:



This graph shows which files directly or indirectly include this file:



#### Classes

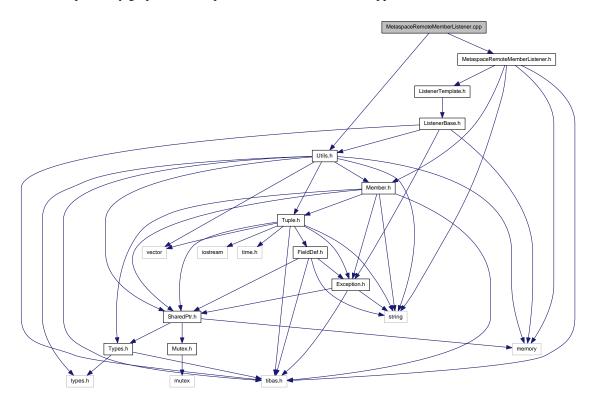
• class ASApi::MetaspaceMemberListener

# Namespaces

# 7.71 MetaspaceRemoteMemberListener.cpp File Reference

#include "MetaspaceRemoteMemberListener.h"
#include "Utils.h"

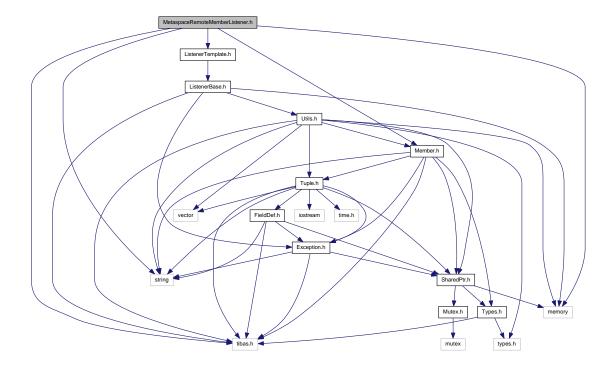
Include dependency graph for MetaspaceRemoteMemberListener.cpp:



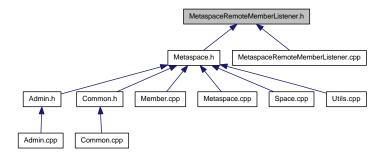
# 7.72 MetaspaceRemoteMemberListener.h File Reference

```
#include "tibas.h"
#include <memory>
#include <string>
#include "ListenerTemplate.h"
#include "Member.h"
```

Include dependency graph for MetaspaceRemoteMemberListener.h:



This graph shows which files directly or indirectly include this file:



#### Classes

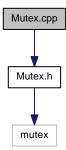
• class ASApi::MetaspaceRemoteMemberListener

## Namespaces

# 7.73 Mutex.cpp File Reference

#include "Mutex.h"

Include dependency graph for Mutex.cpp:



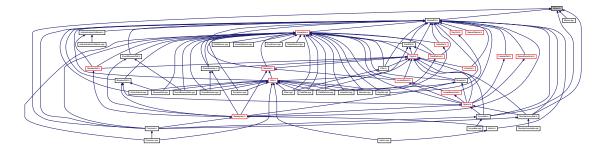
# 7.74 Mutex.h File Reference

#include <mutex>

Include dependency graph for Mutex.h:



This graph shows which files directly or indirectly include this file:



## **Namespaces**

• namespace ASApi

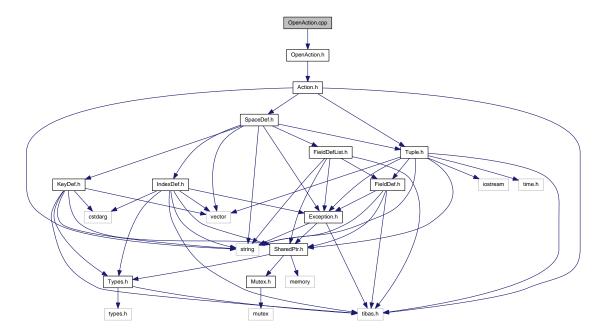
## **Typedefs**

• typedef std::mutex ASApi::Mutex

# 7.75 OpenAction.cpp File Reference

#include "OpenAction.h"

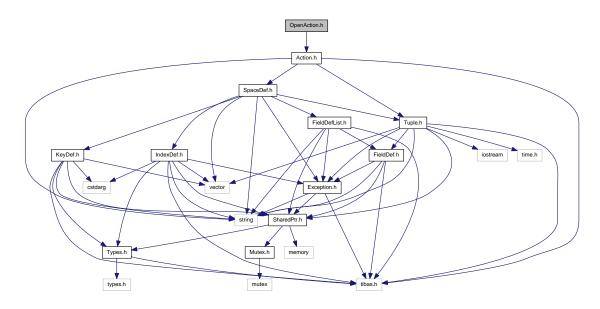
Include dependency graph for OpenAction.cpp:



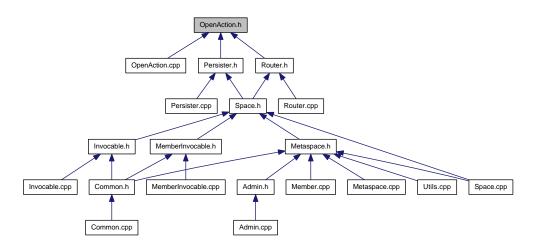
# 7.76 OpenAction.h File Reference

#include "Action.h"

Include dependency graph for OpenAction.h:



This graph shows which files directly or indirectly include this file:



#### Classes

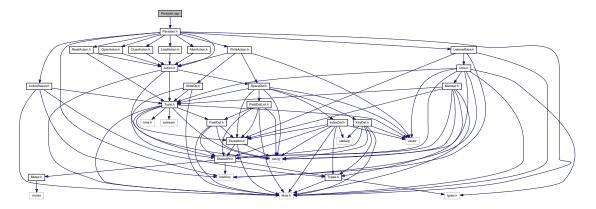
• class ASApi::OpenAction

# Namespaces

# 7.77 Persister.cpp File Reference

#include "Persister.h"

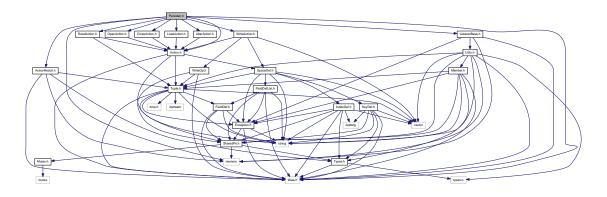
Include dependency graph for Persister.cpp:



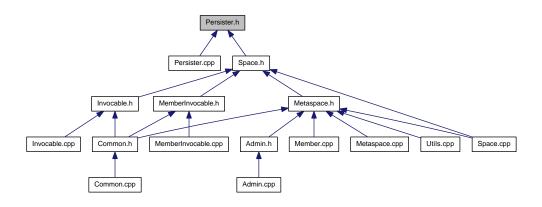
### 7.78 Persister.h File Reference

```
#include "tibas.h"
#include <memory>
#include "Action.h"
#include "OpenAction.h"
#include "CloseAction.h"
#include "LoadAction.h"
#include "ReadAction.h"
#include "WriteAction.h"
#include "AlterAction.h"
#include "ActionResult.h"
#include "ListenerBase.h"
```

#### Include dependency graph for Persister.h:



This graph shows which files directly or indirectly include this file:



### Classes

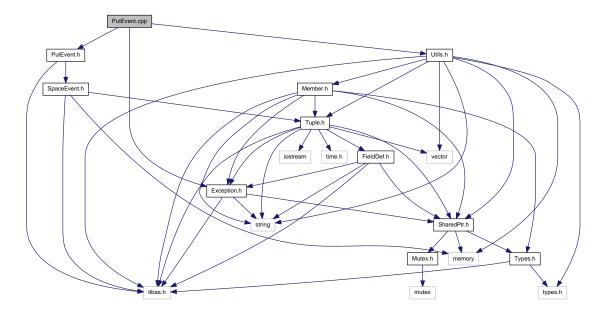
• class ASApi::Persister

# Namespaces

# 7.79 PutEvent.cpp File Reference

```
#include "PutEvent.h"
#include "Exception.h"
#include "Utils.h"
```

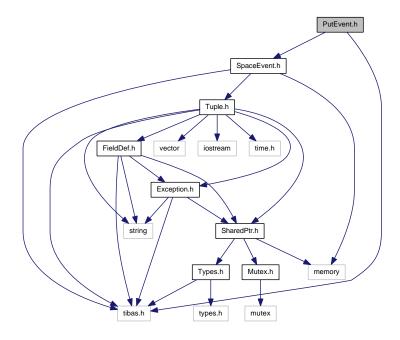
Include dependency graph for PutEvent.cpp:



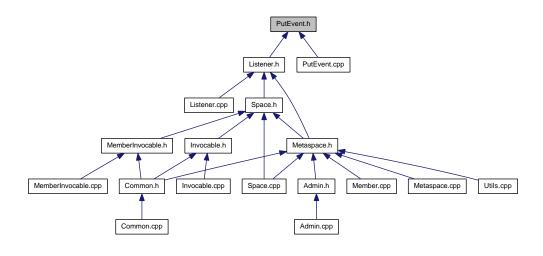
## 7.80 PutEvent.h File Reference

#include "tibas.h"
#include "SpaceEvent.h"

Include dependency graph for PutEvent.h:



This graph shows which files directly or indirectly include this file:



### Classes

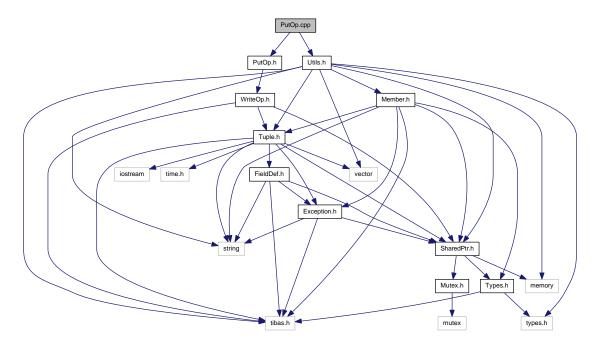
• class ASApi::PutEvent

# Namespaces

# 7.81 PutOp.cpp File Reference

#include "PutOp.h"
#include "Utils.h"

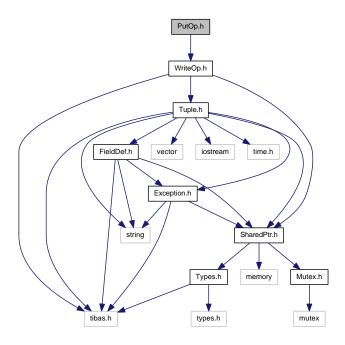
Include dependency graph for PutOp.cpp:



# 7.82 PutOp.h File Reference

#include "WriteOp.h"

Include dependency graph for PutOp.h:



This graph shows which files directly or indirectly include this file:



### Classes

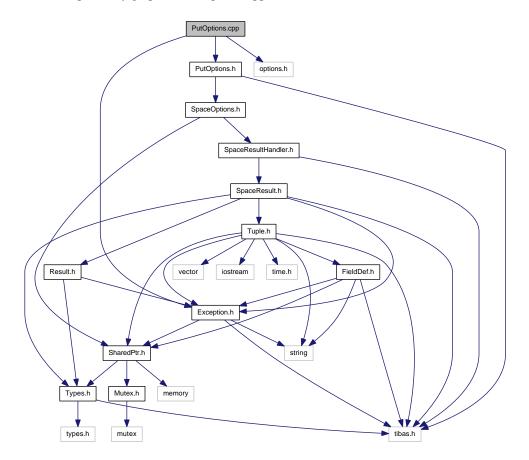
• class ASApi::PutOp

### **Namespaces**

# 7.83 PutOptions.cpp File Reference

```
#include "PutOptions.h"
#include "options.h"
#include "Exception.h"
```

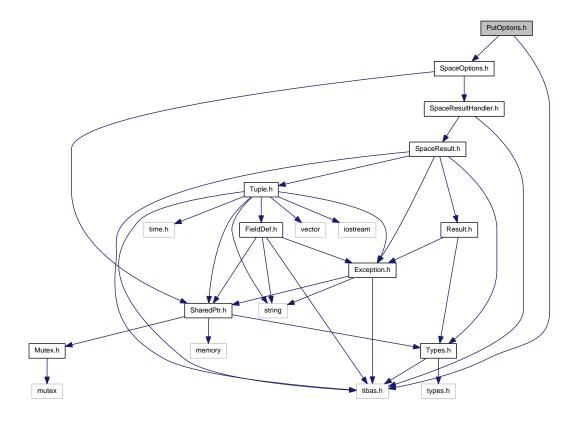
Include dependency graph for PutOptions.cpp:



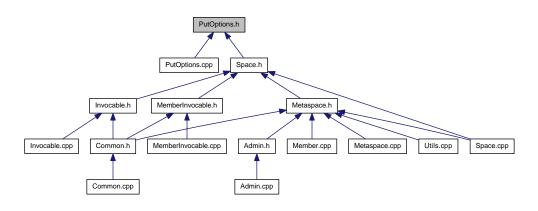
# 7.84 PutOptions.h File Reference

```
#include "tibas.h"
#include "SpaceOptions.h"
```

Include dependency graph for PutOptions.h:



This graph shows which files directly or indirectly include this file:



### Classes

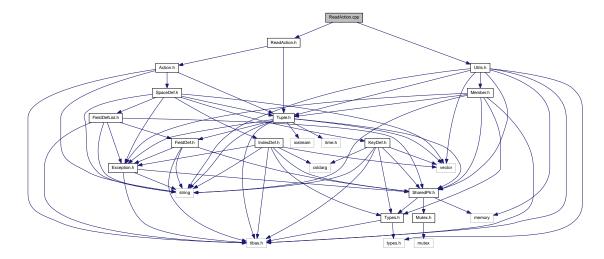
• class ASApi::PutOptions

# Namespaces

# 7.85 ReadAction.cpp File Reference

#include "ReadAction.h"
#include "Utils.h"

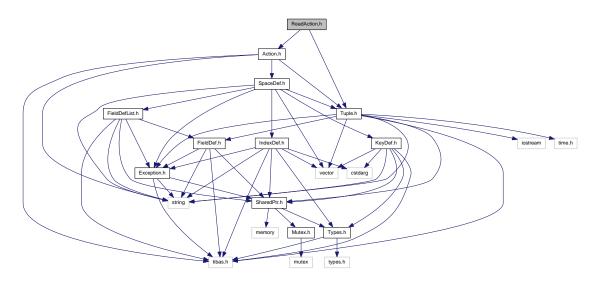
Include dependency graph for ReadAction.cpp:



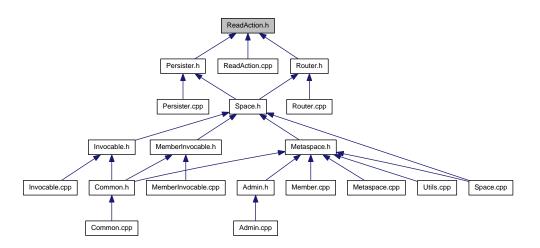
## 7.86 ReadAction.h File Reference

```
#include "Action.h"
#include "Tuple.h"
```

Include dependency graph for ReadAction.h:



This graph shows which files directly or indirectly include this file:



### Classes

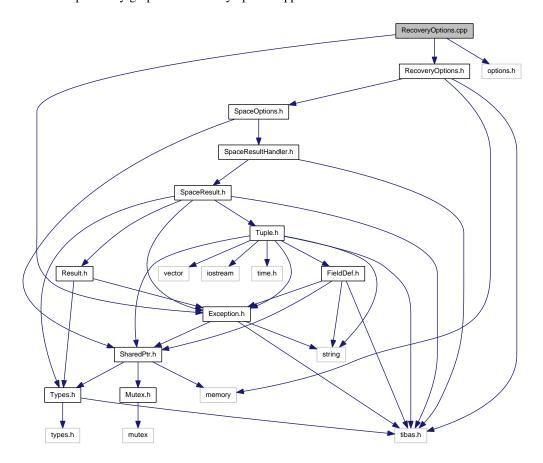
• class ASApi::ReadAction

# Namespaces

# 7.87 RecoveryOptions.cpp File Reference

```
#include "RecoveryOptions.h"
#include "options.h"
#include "Exception.h"
```

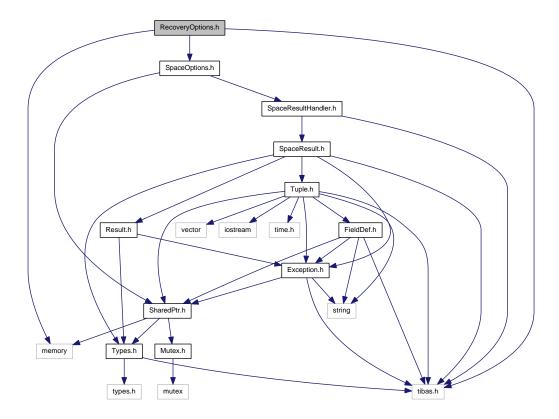
Include dependency graph for RecoveryOptions.cpp:



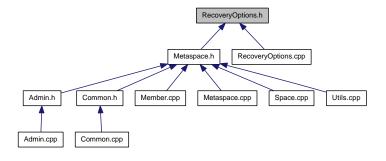
# 7.88 RecoveryOptions.h File Reference

```
#include <memory>
#include "tibas.h"
#include "SpaceOptions.h"
```

Include dependency graph for RecoveryOptions.h:



This graph shows which files directly or indirectly include this file:



### Classes

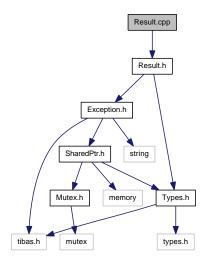
• class ASApi::RecoveryOptions

# Namespaces

# 7.89 Result.cpp File Reference

#include "Result.h"

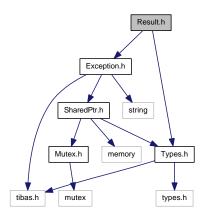
Include dependency graph for Result.cpp:



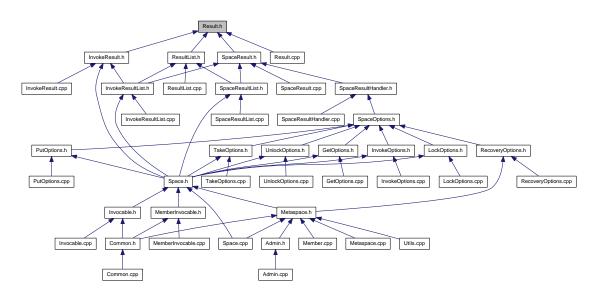
## 7.90 Result.h File Reference

```
#include "Exception.h"
#include "Types.h"
```

Include dependency graph for Result.h:



This graph shows which files directly or indirectly include this file:



#### Classes

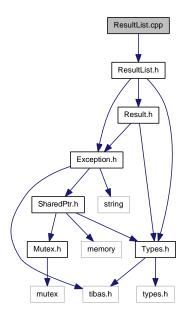
• class ASApi::Result

# Namespaces

# 7.91 ResultList.cpp File Reference

#include "ResultList.h"

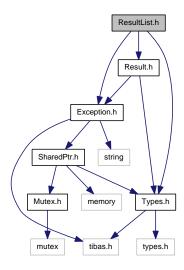
Include dependency graph for ResultList.cpp:



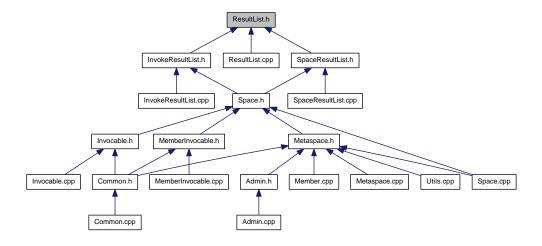
### 7.92 ResultList.h File Reference

```
#include "Exception.h"
#include "Result.h"
#include "Types.h"
```

Include dependency graph for ResultList.h:



This graph shows which files directly or indirectly include this file:



### Classes

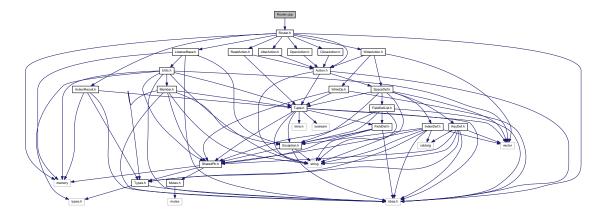
• class ASApi::ResultList

# Namespaces

# 7.93 Router.cpp File Reference

#include "Router.h"

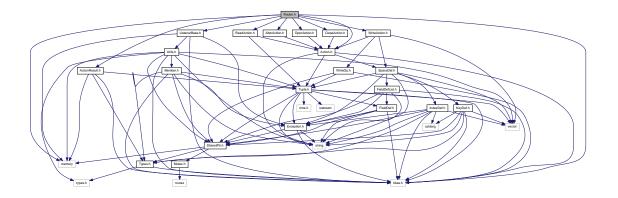
Include dependency graph for Router.cpp:



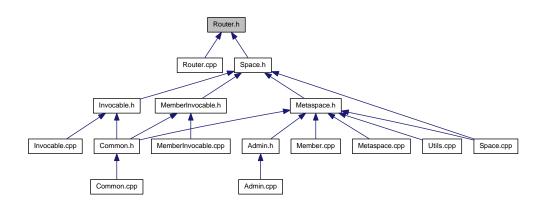
### 7.94 Router.h File Reference

```
#include "tibas.h"
#include <memory>
#include "Action.h"
#include "ReadAction.h"
#include "WriteAction.h"
#include "AlterAction.h"
#include "ActionResult.h"
#include "ListenerBase.h"
#include "OpenAction.h"
#include "CloseAction.h"
```

#### Include dependency graph for Router.h:



This graph shows which files directly or indirectly include this file:



### Classes

• class ASApi::Router

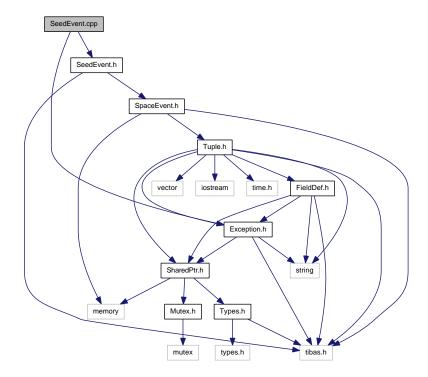
# Namespaces

# 7.95 SeedEvent.cpp File Reference

#include "SeedEvent.h"

#include "Exception.h"

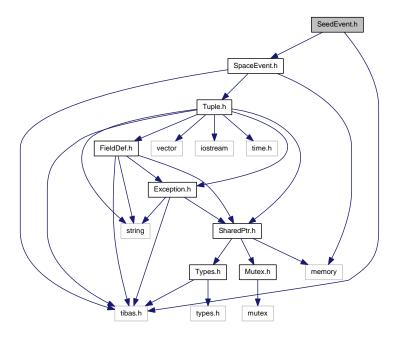
Include dependency graph for SeedEvent.cpp:



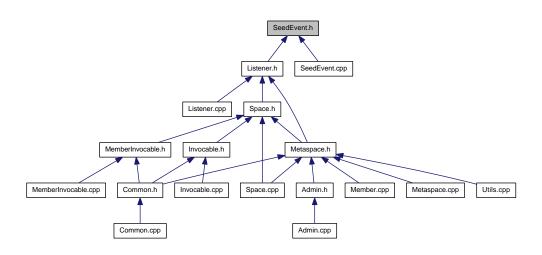
## 7.96 SeedEvent.h File Reference

```
#include "tibas.h"
#include "SpaceEvent.h"
```

Include dependency graph for SeedEvent.h:



This graph shows which files directly or indirectly include this file:



### Classes

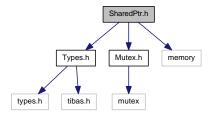
• class ASApi::SeedEvent

# Namespaces

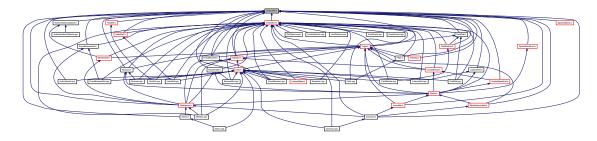
## 7.97 SharedPtr.h File Reference

```
#include "Types.h"
#include "Mutex.h"
#include <memory>
```

Include dependency graph for SharedPtr.h:



This graph shows which files directly or indirectly include this file:



### Classes

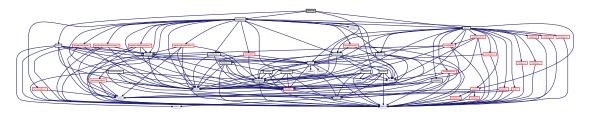
• class ASApi::SharedPtr< T >

### **Namespaces**

# 7.98 Space.cpp File Reference

```
#include "Space.h"
#include "Exception.h"
#include "Utils.h"
#include "Metaspace.h"
```

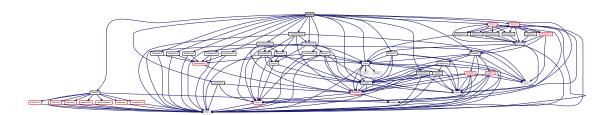
Include dependency graph for Space.cpp:



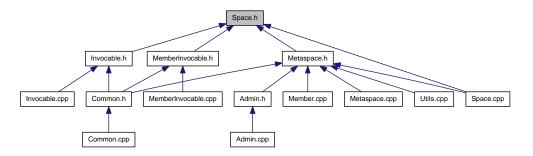
# 7.99 Space.h File Reference

```
#include <string>
#include "Exception.h"
#include "Tuple.h"
#include "SpaceDef.h"
#include "Browser.h"
#include "BrowserDef.h"
#include "Listener.h"
#include "ListenerDef.h"
#include "PutOptions.h"
#include "TakeOptions.h"
#include "GetOptions.h"
#include "LockOptions.h"
#include "UnlockOptions.h"
#include "SpaceResultList.h"
#include "InvokeOptions.h"
#include "InvokeResult.h"
#include "InvokeResultList.h"
#include "Persister.h"
#include "Router.h"
```

Include dependency graph for Space.h:



This graph shows which files directly or indirectly include this file:



### Classes

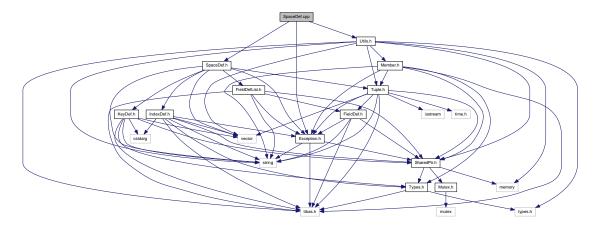
• class ASApi::Space

### **Namespaces**

# 7.100 SpaceDef.cpp File Reference

```
#include "SpaceDef.h"
#include "Exception.h"
#include "Utils.h"
```

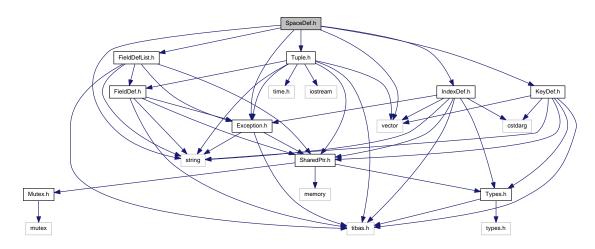
Include dependency graph for SpaceDef.cpp:



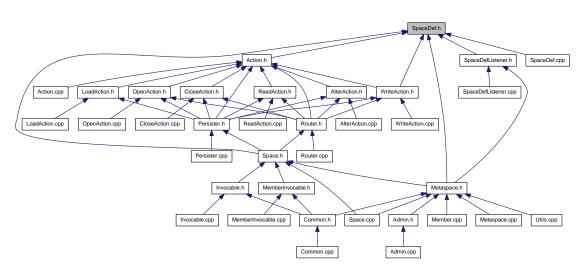
# 7.101 SpaceDef.h File Reference

```
#include <string>
#include <vector>
#include "Tuple.h"
#include "FieldDefList.h"
#include "KeyDef.h"
#include "IndexDef.h"
#include "Exception.h"
```

Include dependency graph for SpaceDef.h:



This graph shows which files directly or indirectly include this file:



## Classes

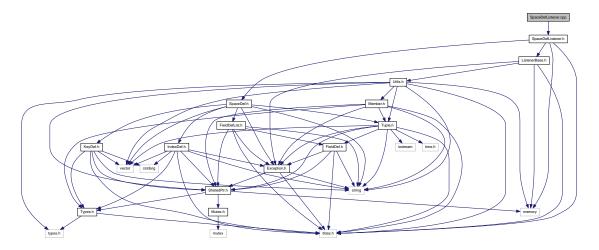
• class ASApi::SpaceDef

# Namespaces

# 7.102 SpaceDefListener.cpp File Reference

#include "SpaceDefListener.h"

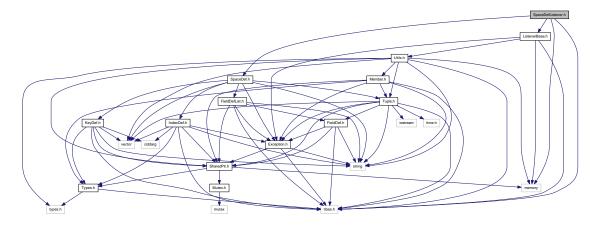
Include dependency graph for SpaceDefListener.cpp:



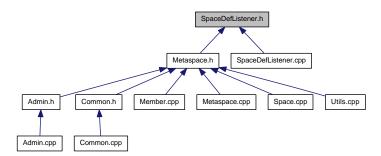
# 7.103 SpaceDefListener.h File Reference

```
#include "tibas.h"
#include "SpaceDef.h"
#include "ListenerBase.h"
#include <memory>
```

Include dependency graph for SpaceDefListener.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class ASApi::SpaceDefListener

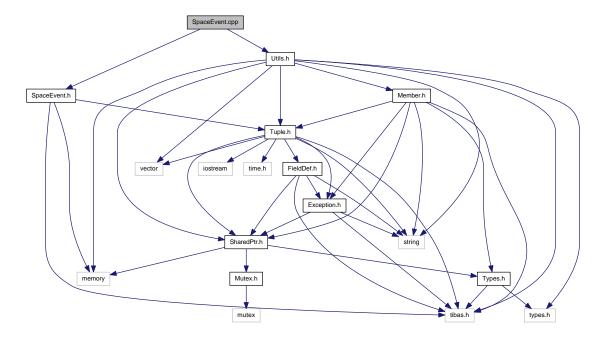
## **Namespaces**

# 7.104 SpaceEvent.cpp File Reference

#include "SpaceEvent.h"

#include "Utils.h"

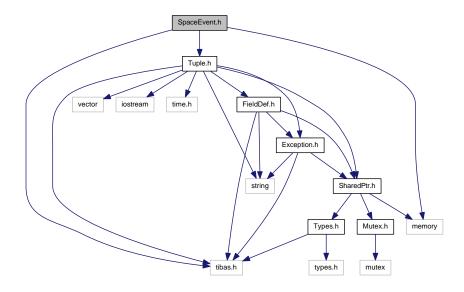
Include dependency graph for SpaceEvent.cpp:

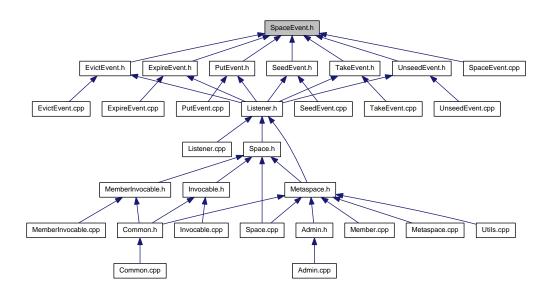


# 7.105 SpaceEvent.h File Reference

```
#include "tibas.h"
#include "Tuple.h"
#include <memory>
```

Include dependency graph for SpaceEvent.h:





## Classes

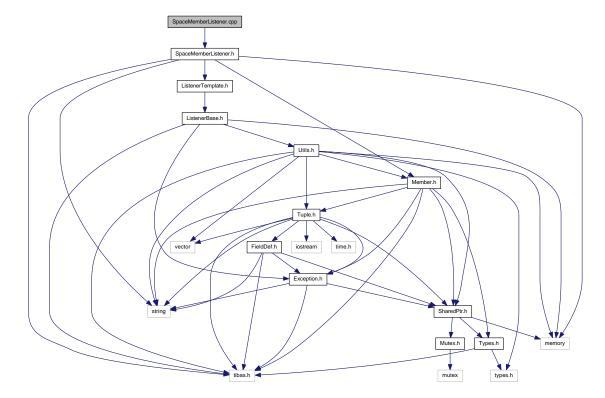
• class ASApi::SpaceEvent

# Namespaces

# 7.106 SpaceMemberListener.cpp File Reference

#include "SpaceMemberListener.h"

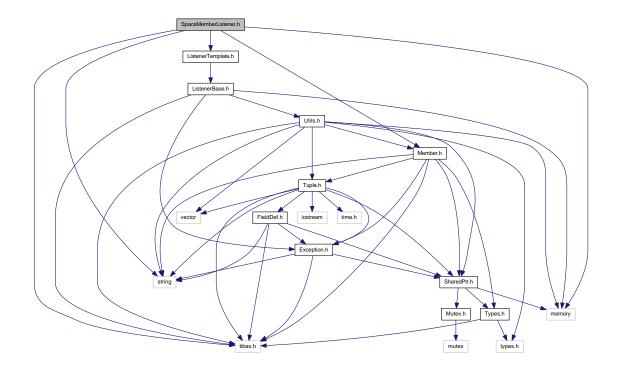
Include dependency graph for SpaceMemberListener.cpp:

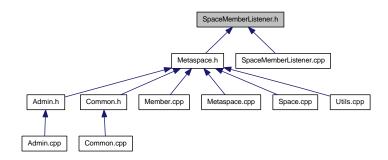


# 7.107 SpaceMemberListener.h File Reference

```
#include "tibas.h"
#include <memory>
#include <string>
#include "ListenerTemplate.h"
#include "Member.h"
```

Include dependency graph for SpaceMemberListener.h:





## Classes

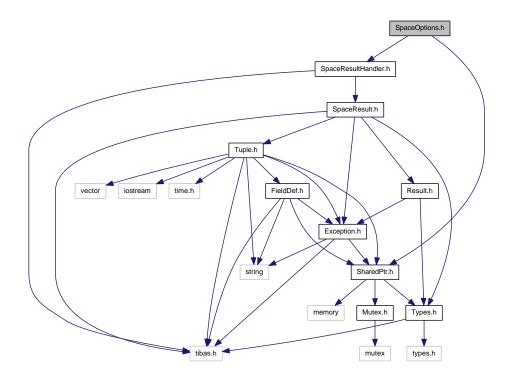
• class ASApi::SpaceMemberListener

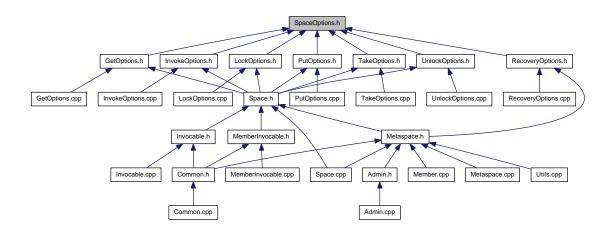
# Namespaces

# 7.108 SpaceOptions.h File Reference

#include "SpaceResultHandler.h"
#include "SharedPtr.h"

Include dependency graph for SpaceOptions.h:





## Classes

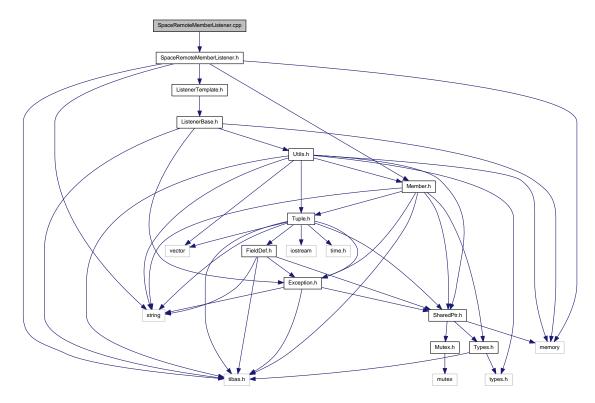
• class ASApi::SpaceOptions< OptionsType, tibasType >

## Namespaces

# 7.109 SpaceRemoteMemberListener.cpp File Reference

#include "SpaceRemoteMemberListener.h"

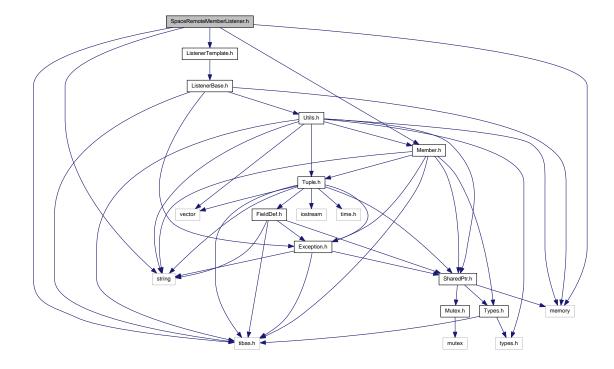
Include dependency graph for SpaceRemoteMemberListener.cpp:

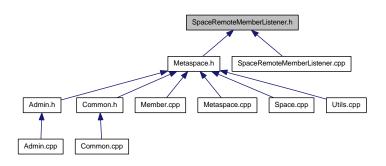


# 7.110 SpaceRemoteMemberListener.h File Reference

```
#include "tibas.h"
#include <memory>
#include <string>
#include "ListenerTemplate.h"
#include "Member.h"
```

Include dependency graph for SpaceRemoteMemberListener.h:





## Classes

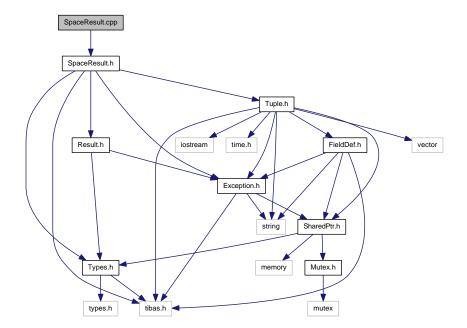
• class ASApi::SpaceRemoteMemberListener

## Namespaces

# 7.111 SpaceResult.cpp File Reference

#include "SpaceResult.h"

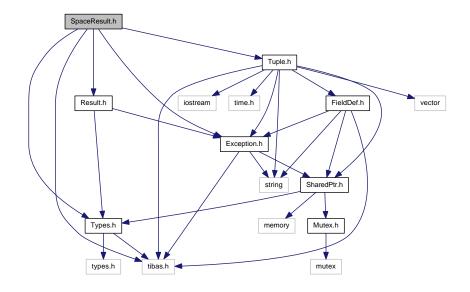
Include dependency graph for SpaceResult.cpp:



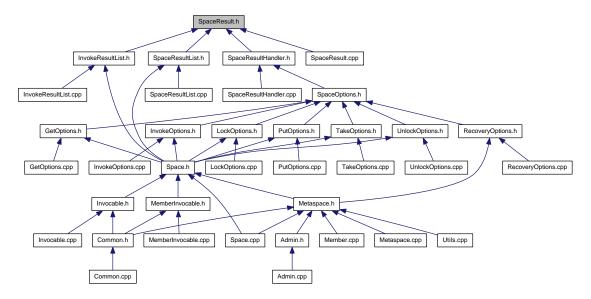
# 7.112 SpaceResult.h File Reference

```
#include "tibas.h"
#include "Exception.h"
#include "Tuple.h"
#include "Result.h"
#include "Types.h"
```

Include dependency graph for SpaceResult.h:



This graph shows which files directly or indirectly include this file:



#### Classes

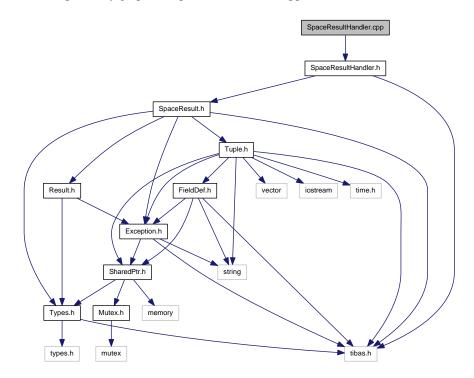
• class ASApi::SpaceResult

#### **Namespaces**

# 7.113 SpaceResultHandler.cpp File Reference

#include "SpaceResultHandler.h"

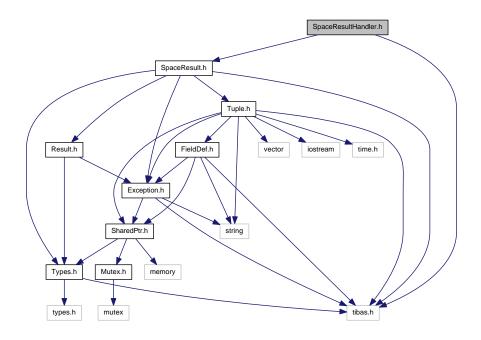
Include dependency graph for SpaceResultHandler.cpp:

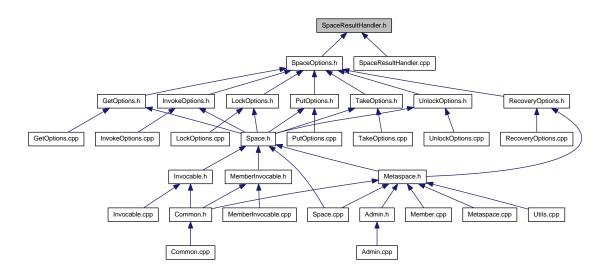


# 7.114 SpaceResultHandler.h File Reference

```
#include "SpaceResult.h"
#include "tibas.h"
```

Include dependency graph for SpaceResultHandler.h:





## Classes

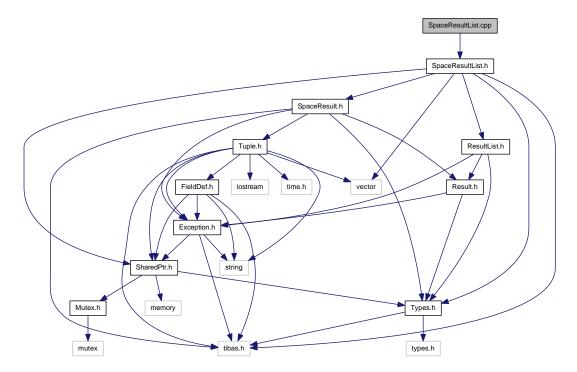
- class ASApi::SpaceResultHandler
- struct ASApi::SpaceResultHandler::Closure

## Namespaces

# 7.115 SpaceResultList.cpp File Reference

#include "SpaceResultList.h"

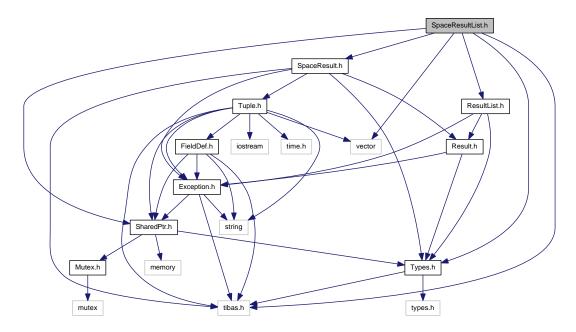
Include dependency graph for SpaceResultList.cpp:

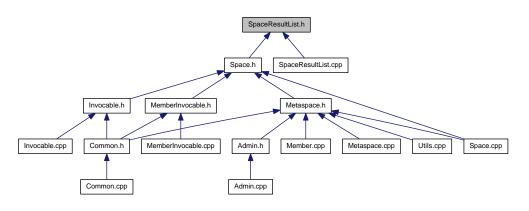


# 7.116 SpaceResultList.h File Reference

```
#include "tibas.h"
#include "SpaceResult.h"
#include "ResultList.h"
#include "Types.h"
#include 
vector>
#include "SharedPtr.h"
```

Include dependency graph for SpaceResultList.h:





## Classes

• class ASApi::SpaceResultList

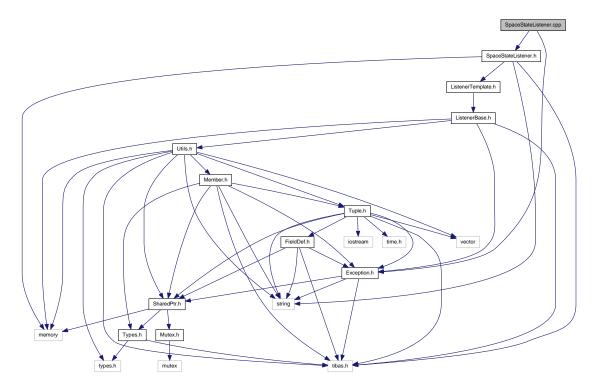
# Namespaces

# 7.117 SpaceStateListener.cpp File Reference

#include "Exception.h"

#include "SpaceStateListener.h"

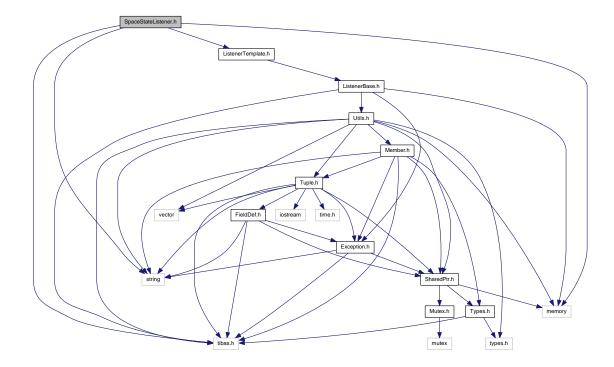
Include dependency graph for SpaceStateListener.cpp:

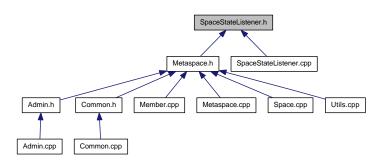


# 7.118 SpaceStateListener.h File Reference

```
#include <memory>
#include <string>
#include "tibas.h"
#include "ListenerTemplate.h"
```

Include dependency graph for SpaceStateListener.h:





## Classes

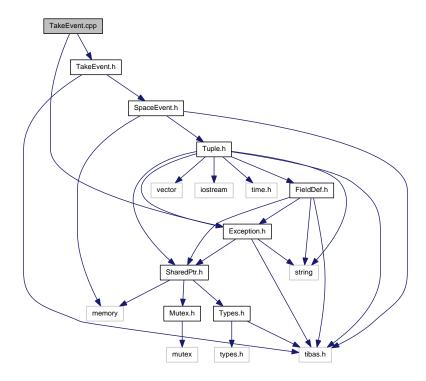
• class ASApi::SpaceStateListener

# Namespaces

# 7.119 TakeEvent.cpp File Reference

#include "TakeEvent.h"
#include "Exception.h"

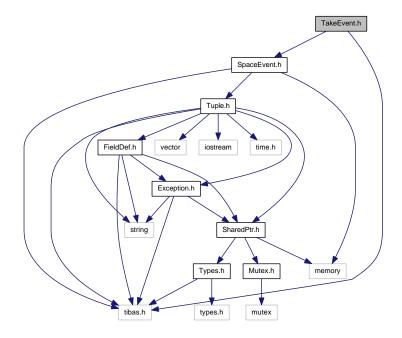
Include dependency graph for TakeEvent.cpp:

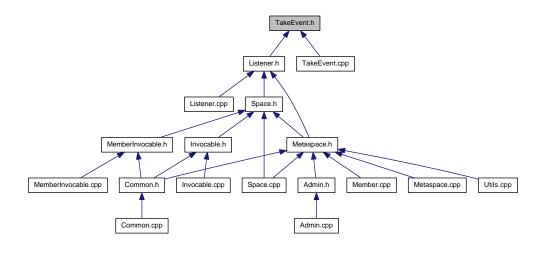


# 7.120 TakeEvent.h File Reference

#include "tibas.h"
#include "SpaceEvent.h"

Include dependency graph for TakeEvent.h:





## Classes

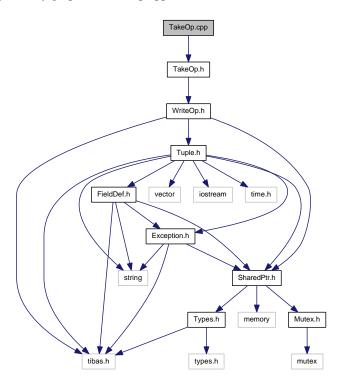
• class ASApi::TakeEvent

# Namespaces

# 7.121 TakeOp.cpp File Reference

#include "TakeOp.h"

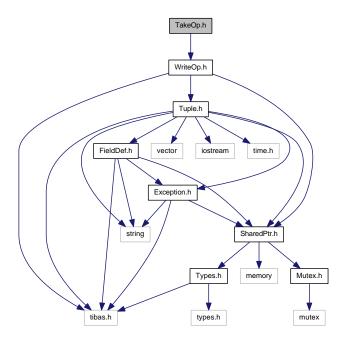
Include dependency graph for TakeOp.cpp:



# 7.122 TakeOp.h File Reference

#include "WriteOp.h"

Include dependency graph for TakeOp.h:



This graph shows which files directly or indirectly include this file:



#### Classes

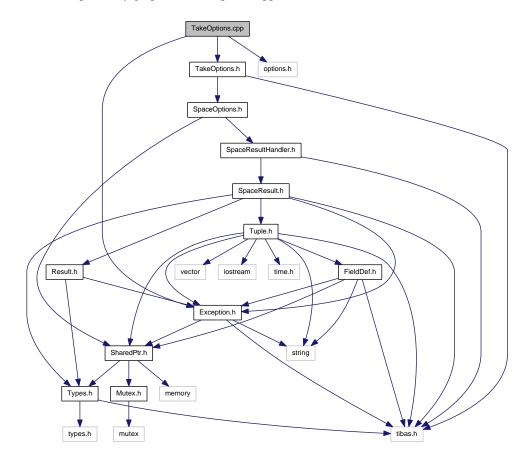
• class ASApi::TakeOp

## **Namespaces**

# 7.123 TakeOptions.cpp File Reference

```
#include "TakeOptions.h"
#include "options.h"
#include "Exception.h"
```

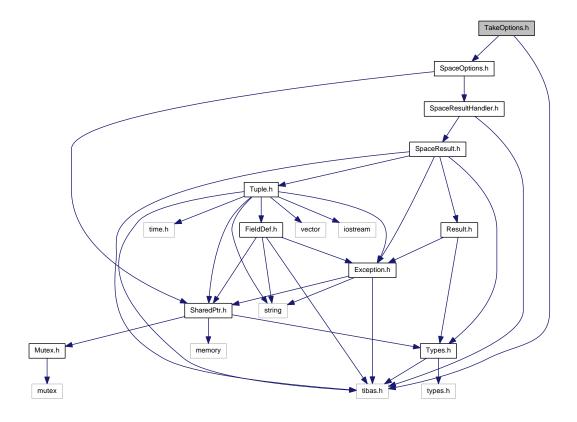
Include dependency graph for TakeOptions.cpp:

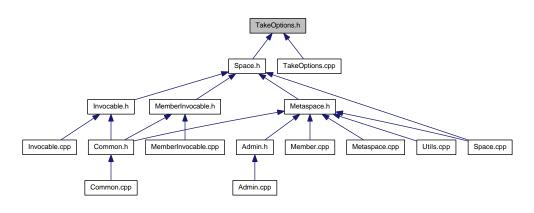


# 7.124 TakeOptions.h File Reference

```
#include "tibas.h"
#include "SpaceOptions.h"
```

Include dependency graph for TakeOptions.h:





## Classes

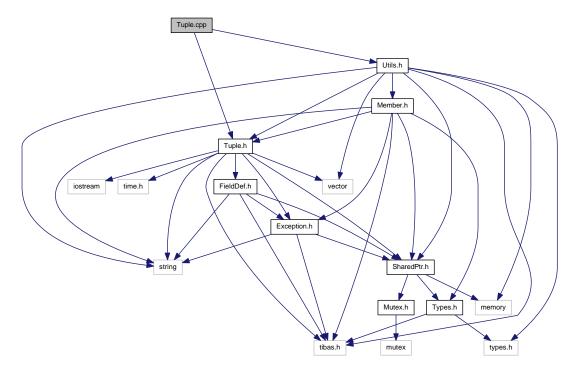
• class ASApi::TakeOptions

# Namespaces

# 7.125 Tuple.cpp File Reference

```
#include "Tuple.h"
#include "Utils.h"
```

Include dependency graph for Tuple.cpp:



#### **Functions**

- void deleter (tibasTuple \*tuple)
- ostream & operator<< (ostream &os, const Tuple &tuple)

#### **7.125.1** Function Documentation

#### 7.125.1.1 void deleter (tibasTuple \* tuple)

Definition at line 8 of file Tuple.cpp.

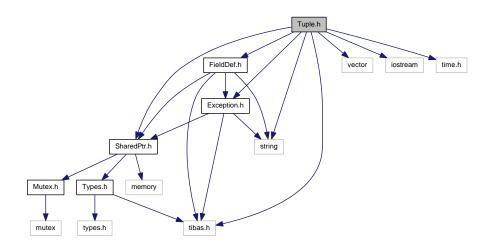
#### 7.125.1.2 ostream& operator<< (ostream & os, const Tuple & tuple)

Definition at line 334 of file Tuple.cpp.

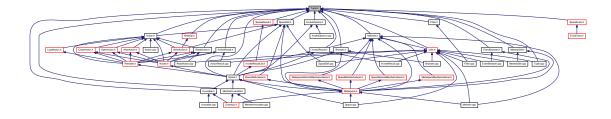
# 7.126 Tuple.h File Reference

```
#include <string>
#include <vector>
#include <iostream>
#include <time.h>
#include "tibas.h"
#include "Exception.h"
#include "FieldDef.h"
#include "SharedPtr.h"
```

Include dependency graph for Tuple.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class ASApi::Tuple

## **Namespaces**

• namespace ASApi

#### **Functions**

• AS\_CPP\_API std::ostream & operator<< (std::ostream &os, const AS-Api::Tuple &tuple)

#### **7.126.1** Function Documentation

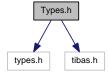
7.126.1.1 AS\_CPP\_API std::ostream& operator<< (std::ostream & os, const ASApi::Tuple & tuple)

Definition at line 334 of file Tuple.cpp.

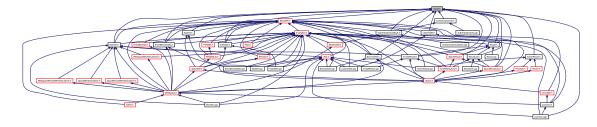
## 7.127 Types.h File Reference

```
#include "types.h"
#include <tibas.h>
```

Include dependency graph for Types.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class ASApi::Deleter< T >

### **Namespaces**

• namespace ASApi

#### **Defines**

• #define AS\_CPP\_API

### **Typedefs**

- typedef tibas\_status ASApi::Status
- typedef tibas\_distributionScope ASApi::DistributionScope
- typedef tibas\_timeScope ASApi::TimeScope
- typedef tibas\_logLevel ASApi::LogLevel
- typedef tibas\_indexType ASApi::IndexType
- typedef tibas\_managementRole ASApi::ManagementRole

- typedef tibas\_distributionRole ASApi::DistributionRole
- typedef tibas\_browserType ASApi::BrowserType
- typedef tibas\_spaceState ASApi::SpaceState
- typedef tibas\_distributionPolicy ASApi::DistributionPolicy
- typedef tibas\_persistenceType ASApi::PersistenceType
- typedef tibas\_persistencePolicy ASApi::PersistencePolicy
- typedef tibas\_evictionPolicy ASApi::EvictionPolicy

### 7.127.1 Define Documentation

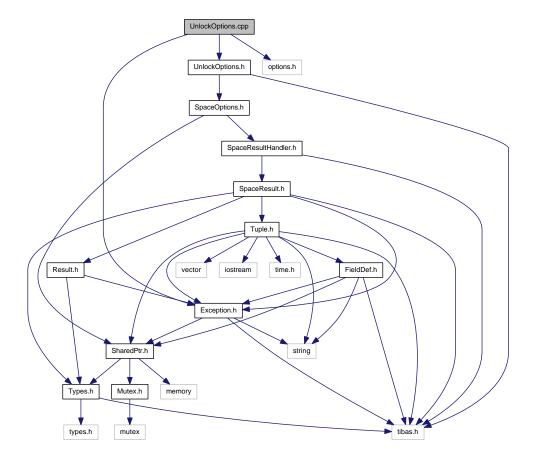
#### 7.127.1.1 #define AS\_CPP\_API

Definition at line 11 of file Types.h.

## 7.128 UnlockOptions.cpp File Reference

```
#include "UnlockOptions.h"
#include "options.h"
#include "Exception.h"
```

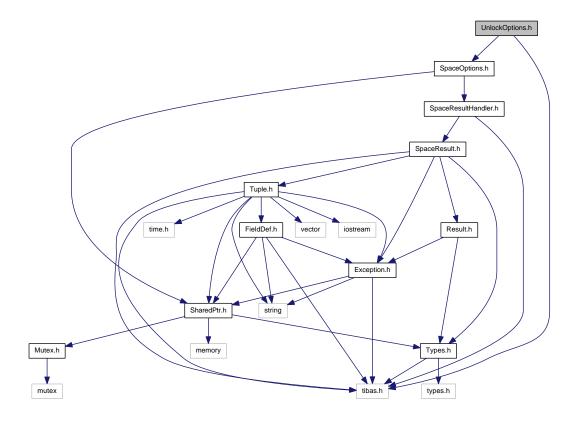
Include dependency graph for UnlockOptions.cpp:



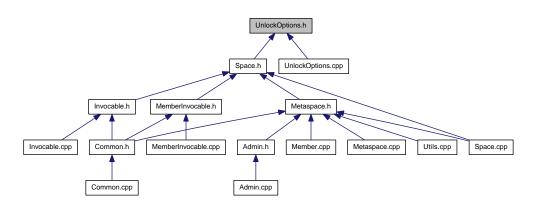
## 7.129 UnlockOptions.h File Reference

```
#include "tibas.h"
#include "SpaceOptions.h"
```

Include dependency graph for UnlockOptions.h:



This graph shows which files directly or indirectly include this file:



## Classes

• class ASApi::UnlockOptions

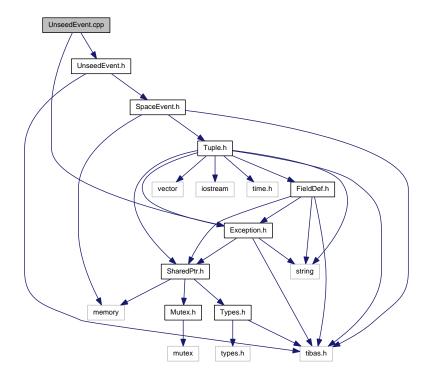
## Namespaces

• namespace ASApi

## 7.130 UnseedEvent.cpp File Reference

#include "UnseedEvent.h"
#include "Exception.h"

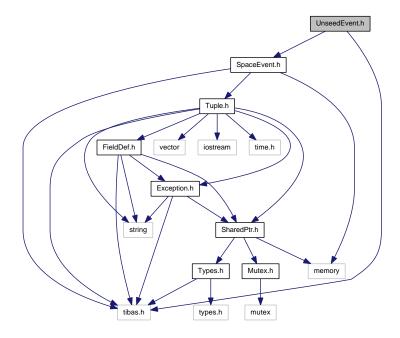
Include dependency graph for UnseedEvent.cpp:



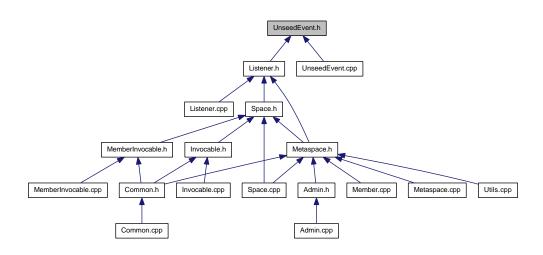
## 7.131 UnseedEvent.h File Reference

#include "tibas.h"
#include "SpaceEvent.h"

Include dependency graph for UnseedEvent.h:



This graph shows which files directly or indirectly include this file:



## Classes

• class ASApi::UnseedEvent

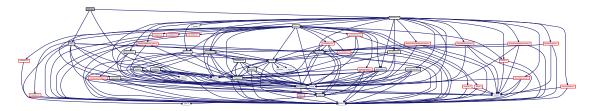
## Namespaces

• namespace ASApi

## 7.132 Utils.cpp File Reference

```
#include "Utils.h"
#include "Exception.h"
#include "Metaspace.h"
```

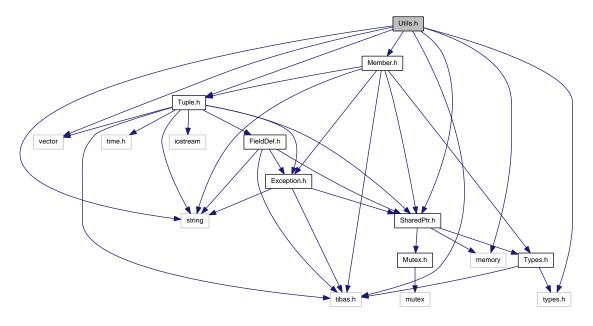
Include dependency graph for Utils.cpp:



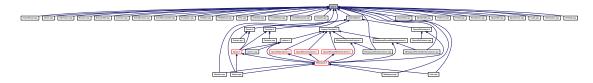
## 7.133 Utils.h File Reference

```
#include <vector>
#include <string>
#include <memory>
#include "tibas.h"
#include "types.h"
#include "Tuple.h"
#include "Member.h"
#include "SharedPtr.h"
```

### Include dependency graph for Utils.h:



This graph shows which files directly or indirectly include this file:



### **Namespaces**

• namespace ASApi

### **Functions**

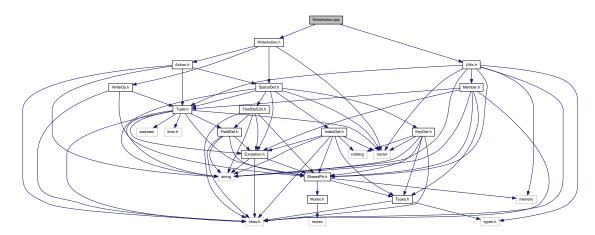
• std::vector< std::string > ASApi::asStringListToVector (const tibasStringList &stringList)

- SharedPtr< tibasTupleList > ASApi::tuplesToAsTupleList (const std::vector< Tuple > &tuples)
- SharedPtr< tibasMemberList > ASApi::membersToAsMemberList (const std::vector< Member > &members, const Metaspace &metaspace)
- std::vector< Member > ASApi::asMemberListToVector (tibasMemberList &memberList)

## 7.134 WriteAction.cpp File Reference

#include "WriteAction.h"
#include "Utils.h"

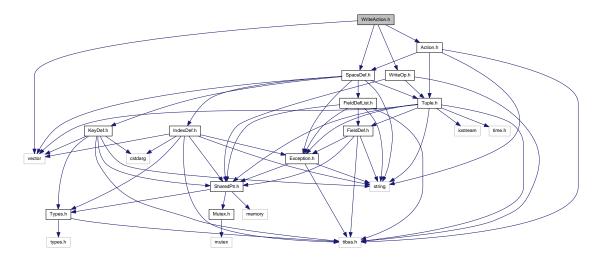
Include dependency graph for WriteAction.cpp:



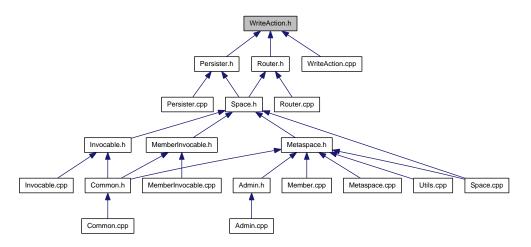
## 7.135 WriteAction.h File Reference

```
#include <vector>
#include "Action.h"
#include "SpaceDef.h"
#include "WriteOp.h"
```

Include dependency graph for WriteAction.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class ASApi::WriteAction

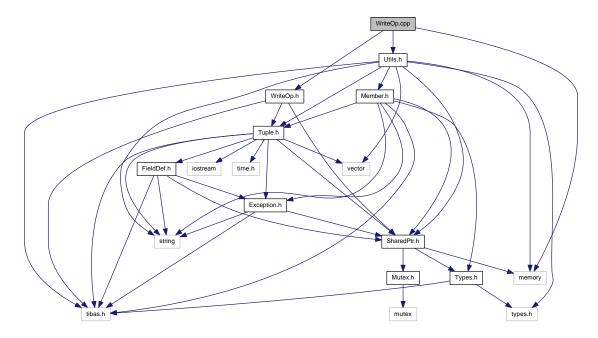
## Namespaces

• namespace ASApi

## 7.136 WriteOp.cpp File Reference

```
#include "WriteOp.h"
#include "Utils.h"
#include <memory>
```

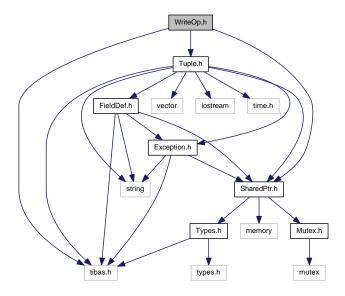
Include dependency graph for WriteOp.cpp:



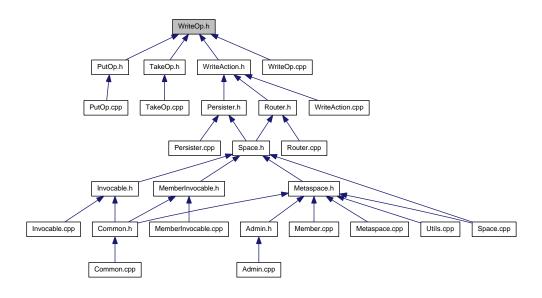
## 7.137 WriteOp.h File Reference

```
#include "tibas.h"
#include "Tuple.h"
#include "SharedPtr.h"
```

Include dependency graph for WriteOp.h:



This graph shows which files directly or indirectly include this file:



## Classes

• class ASApi::WriteOp

## Namespaces

• namespace ASApi

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