BRisa Qt

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Generated by Doxygen 1.6.1

Wed Mar 24 08:38:10 2010

Contents

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Chapter 2

Class Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

Chapter 5

Namespace Documentation

5.1 BrisaCore Namespace Reference

Classes

- class BrisaConfigurationManager

  Class that provides an easy way of managing configurations.

- class BrisaWebService

  Web service abstraction class.

- class BrisaWebFile

  Adds a file to the web server.

- class BrisaWebStaticContent

  The BrisaWebStaticContent class stores a QString into the web server.

- class BrisaWebServiceProvider

  The BrisaWebServiceProvider class works as web service manager for the web server.

- class BrisaWebserver

  The BrisaWebserver class is a web server implementation.

5.2 BrisaUpnp Namespace Reference

Classes

- class BrisaAbstractEventSubscription
- class BrisaAbstractService
- class BrisaAction

  Template method class that represents each service's action.

- class BrisaArgument
- class BrisaIcon
- class BrisaServiceParserContext
- class BrisaServiceXMLHandler
- class BrisaStateVariable

  Represents the service's state variables.

- class BrisaControlPoint

  Class that implements the control part in UPnP Architecture.

- class BrisaControlPointDevice

  Class that implements the devices that control point part is going to handle.

- class BrisaControlPointService

  BrisaControlPointService is the class that implements action control in UPnP Architecture.

- class BrisaDeviceParserContext
- class BrisaDeviceXMLHandlerCP

  BrisaDeviceXMLHandlerCP creates a device from a xml description file, with all it's attributes, it let's it ready to be used.

- class BrisaServiceFetcher
- class BrisaEventProxy

  Class that implements the event part in control point side in Brisa Qt, this class makes the operations of subscribe, renew subscription and unsubscribe.

- class BrisaMSearchClientCP

  SSDP MSearch implementation for UPnP control points.

- class BrisaActionXmlParser

  XML parser for SOAP requests.

- class BrisaDevice

  UPnP device implementation.

- class BrisaDeviceXMLHandler
- class BrisaEventController
- class BrisaEventMessage
- class BrisaEventSubscription
- class BrisaService

  UPnP service abstraction.

- class BrisaSSDPClient

  SSDP stack implementantion for UPnP control points.

- class BrisaSSDPServer

  SSDP stack implementation for UPnP devices.

Enumerations

- enum saxParserState {

  ServiceStart, Scpd, ServiceSpecVersion, ServiceSpecVersionMajor,

  ServiceSpecVersionMinor, ActionList, Action, ActionName,

  ArgumentList, Argument, ArgumentName, ArgumentDirection,

  RelatedStateVariable, ServiceStateTable, StateVariable, StateVariableName,

  StateVariableDataType, StateVariableDefaultValue, StateVariableAllowedValueList, StateVariableAllowedValue,

  StateVariableAllowedValueRange, StateVariableAllowedValueRangeMinimum, StateVariableAllowedValueRangeMaximum, StateVariableAllowedValueRangeStep,

  ServiceFinished, ServiceError = -1 }
- enum SaxParserState {

  Start, Root, SpecVersion, SpecVersionMajor,

  SpecVersionMinor, UrlBase, Device, DeviceType,

  DeviceFriendlyName, Manufacturer, ManufacturerUrl, ModelDescription,

  ModelName, ModelUrl, SerialNumber, Udn,

  Upc, IconList, Icon, IconMimetype,

  IconWidth, IconHeight, IconDepth, IconUrl,

  PresentationUrl, DeviceList, ServiceList, Service,

  ServiceType, ServiceId, ServiceScpdUrl, ServiceControlUrl,

  ServiceEventSubUrl, Finished, Error = -1 }

5.2.1 Enumeration Type Documentation

5.2.1.1 enum BrisaUpnp::SaxParserState

Enumerator:

Start

Root

SpecVersion

SpecVersionMajor

SpecVersionMinor

UrlBase

Device

DeviceType

DeviceFriendlyName
Manufacturer
ManufacturerUrl
ModelDescription
ModelName
ModelUrl
SerialNumber
Udn
Upc
IconList
Icon
IconMimetype
IconWidth
IconHeight
IconDepth
IconUrl
PresentationUrl
DeviceList
ServiceList
Service
ServiceType
ServiceId
ServiceScpdUrl
ServiceControlUrl
ServiceEventSubUrl
Finished
Error

5.2.1.2 enum BrisaUpnp::saxParserState

Enumerator:

ServiceStart
Scpd
ServiceSpecVersion
ServiceSpecVersionMajor
ServiceSpecVersionMinor
ActionList
Action
ActionName
ArgumentList
Argument

ArgumentName

ArgumentDirection

RelatedStateVariable

ServiceStateTable

StateVariable

StateVariableName

StateVariableDataType

StateVariableDefaultValue

StateVariableAllowedValueList

StateVariableAllowedValue

StateVariableAllowedValueRange

StateVariableAllowedValueRangeMinimum

StateVariableAllowedValueRangeMaximum

StateVariableAllowedValueRangeStep

ServiceFinished

ServiceError

Chapter 6

Class Documentation

6.1 BrisaCore::BrisaConfigurationManager Class Reference

Class that provides an easy way of managing configurations.

`#include <BrisaCore/BrisaConfigurationManager>`

Public Member Functions

- BrisaConfigurationManager (const QString &configPath, const QHash< QString, QString > &state)

  Constructor for the BrisaConfigurationManager class.

- void setDirectAccess (bool access)

  Sets the direct access option of the ConfigurationManager.

- bool getDirectAccess ()

  Returns False if the ConfigurationManager is currently working on the runtime state.

- void update ()

  Updates the current state of the manager according to persistence data.

- void save ()

  Stores the state of the manager on the persistence.

- QString getParameter (const QString &section, const QString &parameter)

  Retrieves the value associated with the parameter in the section given.

- void setParameter (const QString &section, const QString &parameter, const QString &parValue)

  Sets a parameter's value in the given section.

- QList< QString > getSectionNames ()

  Returns the names of all sections.

- QHash< QString, QString > items (const QString &section)

Returns all the items of the given section.

- bool removeSection (const QString &section)

  Removes a section given the name.

6.1.1 Detailed Description

Class that provides an easy way of managing configurations. Configuration is organized in sections, which may contain parameters. Each section has a name and a parameter has a name and a value.

Concerning storage, the configuration can be saved on a sqlite database. Also, there's a feature called "direct access" that enables direct operations on the database. For example,a getParameter() call would retrieve the value of a parameter directly from the database, if the feature is enabled.

When disabled, all methods apply to (what we call) the "state". The state initially contains the same information that is on the database, but if the "direct access" feature is disabled, all get()'s and set()'s apply to the state. This means you can have a "runtime configuration" and a "static configuration".

By default, the "direct access" feature is disabled. To enable it, just call setDirectAccess(True).

The state can be saved on the persistence by explicitly calling save() It can also update its values by explicitly calling update().

6.1.2 Constructor & Destructor Documentation

6.1.2.1 BrisaConfigurationManager::BrisaConfigurationManager (const QString & *configPath*, const QHash< QString, QString > & *state*)

Constructor for the BrisaConfigurationManager class.

Parameters:

config_path a QString that represents the path of the database to work on. If not supplied will work on a memory database.

state,: hash as a dictionaryr with sections and parameters.\ Keys are section.parameters format and values are the their respective values.

6.1.3 Member Function Documentation

6.1.3.1 bool BrisaConfigurationManager::getDirectAccess ()

Returns False if the ConfigurationManager is currently working on the runtime state. Otherwise, it will return True, which means it's working directly on the persistence.

Returns:

The current status of the ConfigurationManager

Referenced by getParameter(), getSectionNames(), items(), removeSection(), and setParameter().

6.1.3.2 QString BrisaConfigurationManager::getParameter (const QString & *section*, const QString & *parameter*)

Retrieves the value associated with the parameter in the section given.

Parameters:

section a section to find the parameter

parameter a parameter to return the value

Returns:

the value for the given parameter

6.1.3.3 QList< QString > BrisaConfigurationManager::getSectionNames ()

Returns the names of all sections.

Returns:

a QList with its parameters and values

6.1.3.4 QHash< QString, QString > BrisaConfigurationManager::items (const QString & *section*)

Returns all the items of the given section.

Parameters:

section name

Returns:

a dictionary with all the items of the given section

Referenced by removeSection().

6.1.3.5 bool BrisaConfigurationManager::removeSection (const QString & *section*)

Removes a section given the name.

Parameters:

section,: section name to be removed

Returns:

a boolean. true whether is possible remove it

6.1.3.6 void BrisaConfigurationManager::save ()

Stores the state of the manager on the persistence.

Referenced by removeSection(), and setParameter().

6.1.3.7 void BrisaConfigurationManager::setDirectAccess (bool *access*)

Sets the direct access option of the ConfigurationManager. When True, direct access makes all get and set methods work directly on the database, not on the current state.

Parameters:

access a boolean argument to set direct access option of the BrisaConfigurationManager

6.1.3.8 void BrisaConfigurationManager::setParameter (const QString & *section*, const QString & *parameter*, const QString & *parValue*)

Sets a parameter's value in the given section. If the parameter does not exist, it gets created.

Parameters:

section a section to set the parameter

parameter a parameter to set the value

parameter a value to be set

6.1.3.9 void BrisaConfigurationManager::update ()

Updates the current state of the manager according to persistence data.

Referenced by getParameter(), getSectionNames(), and items().

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

- src/core/brisaconfig.h
- src/core/brisaconfig.cpp

6.2 BrisaCore::BrisaWebFile Class Reference

Adds a file to the web server.

`#include <BrisaCore/BrisaWebFile>`

Public Member Functions

- BrisaWebFile (QxtAbstractWebSessionManager *sm, QString filePath, QObject *parent=0)
  Constructor for BrisaWebFile.
- ~BrisaWebFile ()
  Destructor for BrisaWebFile.
- void pageRequestedEvent (QxtWebRequestEvent *event)
  Reimplemented from libQxt.

6.2.1 Detailed Description

Adds a file to the web server. Use this class to store a file into the web server. If the BrisaWebFile is stored using a BrisaWebServiceProvider, it's url path will be of "IP:PORT/SERVICENAME/yourfile". if it's stored using the BrisaWebServer convenience method *"publishFile()"*, it's url path will be "IP:PORT/yourfile".

6.2.2 Constructor & Destructor Documentation

6.2.2.1 BrisaWebFile::BrisaWebFile (QxtAbstractWebSessionManager * *sm*, QString *filePath*, QObject * *parent* = 0) [inline]

Constructor for BrisaWebFile. It creates a QFile with the given file path.

6.2.2.2 BrisaWebFile::~BrisaWebFile () [inline]

Destructor for BrisaWebFile.

6.2.3 Member Function Documentation

6.2.3.1 void BrisaWebFile::pageRequestedEvent (QxtWebRequestEvent * *event*) [inline]

Reimplemented from libQxt. When a request is received the BrisaWebFile will reply the stored file.

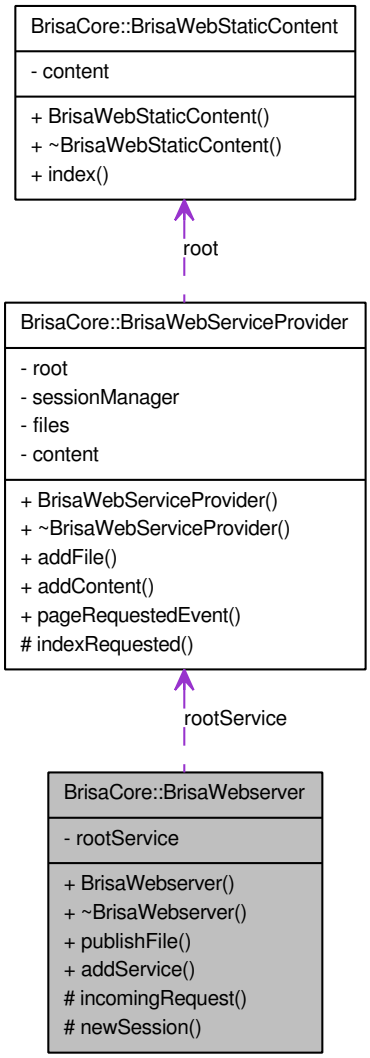
The documentation for this class was generated from the following files:

- src/core/brisawebserver.h
- src/core/brisawebserver.cpp

6.3 BrisaCore::BrisaWebserver Class Reference

The BrisaWebserver class is a web server implementation.

`#include <BrisaCore/BrisaWebserver>`Collaboration diagram for BrisaCore::BrisaWebserver:



Public Member Functions

- BrisaWebserver (const QHostAddress &host, quint16 port)

  Constructor for BrisaWebServer.

- ~BrisaWebserver ()

  Destructor for BrisaWebServer.

- void publishFile (QString publishPath, QString filePath)

  Publishes a file to the root.

- void addService (QString path, QxtWebServiceDirectory ∗service)

  Adds a service to the web server.

Protected Member Functions

- void incomingRequest (quint32 requestID, const QHttpRequestHeader &header, QxtWebContent ∗deviceContent)
- int newSession ()

  Creates a new session and returns the session number.

6.3.1 Detailed Description

The BrisaWebserver class is a web server implementation. BrisaWebServer implements a Web Server using libQxt.

6.3.2 Constructor & Destructor Documentation

6.3.2.1 BrisaWebserver::BrisaWebserver (const QHostAddress & *host*, quint16 *port*)

Constructor for BrisaWebServer.

6.3.2.2 BrisaWebserver::∼BrisaWebserver ()

Destructor for BrisaWebServer.

6.3.3 Member Function Documentation

6.3.3.1 void BrisaWebserver::addService (QString *path*, QxtWebServiceDirectory ∗ *service*)

Adds a service to the web server. The service url path will be added to the root of the server.

6.3.3.2 void BrisaWebserver::incomingRequest (quint32 *requestID*, const QHttpRequestHeader & *header*, QxtWebContent ∗ *deviceContent*) [protected]

6.3.3.3 int BrisaWebserver::newSession () [protected]

Creates a new session and returns the session number.

6.3.3.4 void BrisaWebserver::publishFile (QString *publishPath*, QString *filePath*)

Publishes a file to the root.

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

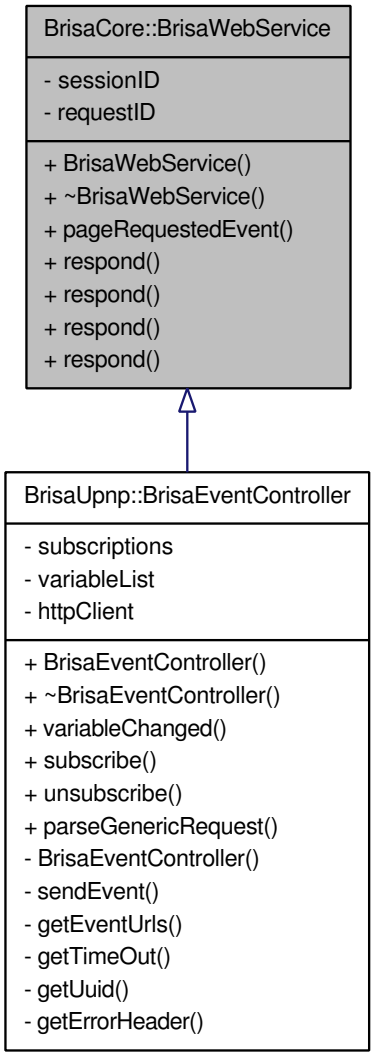
- src/core/brisawebserver.h

- src/core/brisawebserver.cpp

6.4 BrisaCore::BrisaWebService Class Reference

Web service abstraction class.

`#include <BrisaCore/BrisaWebService>`Inheritance diagram for BrisaCore::BrisaWebService:



Public Slots

- void pageRequestedEvent (QxtWebRequestEvent ∗event)

  Reimplemented from libQxt.

- void respond (QByteArray response)

  Responds response to the session and request ID currently stored in BrisaWebService, if using this method the response must be synchronous because the request and session ID can change quickly.

- void respond (const QByteArray &response, const int &sessionId, const int &requestId)

Reimplements respond().

- void respond (const QHttpResponseHeader &response)

  Reimplements respond() This method responds only a HTTP header to the session and request ID stored in BrisaWebService.

- void respond (const QHttpResponseHeader &response, const int &sessionId, const int &requestId)

  Reimplements respond().

Signals

- void genericRequestReceived (const QString &method, const QMultiHash< QString, QString > &headers, const QByteArray &requestContent, int sessionId, int requestId)

  This signal is emmited when BrisaWebService receives a request.

- void genericRequestReceived (BrisaWebService *service, QMultiHash< QString, QString >, QString requestContent)

  Reimplements genericRequestReceived() This signal is emmited when BrisaWebService receives a request, the main difference is that this signal has a pointer to the class that is emmiting the signal.

Public Member Functions

- BrisaWebService (QxtAbstractWebSessionManager *sm, QObject *parent=0)

  Constructor for BrisaWebService.

- ~BrisaWebService ()

  Destructor for BrisaWebService.

6.4.1 Detailed Description

Web service abstraction class. BrisaWebService is used to receive and respond UPnP action and event requests. Currently this class is used mostly with BrisaService and BrisaEventController.

See also:

BrisaUpnp::BrisaService , BrisaUpnp::BrisaEventController

6.4.2 Constructor & Destructor Documentation

6.4.2.1 BrisaWebService::BrisaWebService (QxtAbstractWebSessionManager * *sm*, QObject * *parent* = 0) [inline]

Constructor for BrisaWebService.

6.4.2.2 BrisaWebService::~BrisaWebService () [inline]

Destructor for BrisaWebService.

6.4.3 Member Function Documentation

6.4.3.1 void BrisaWebService::genericRequestReceived (BrisaWebService * *service*, QMultiHash< QString, QString >, QString *requestContent*) [signal]

Reimplements genericRequestReceived() This signal is emmited when BrisaWebService receives a request, the main difference is that this signal has a pointer to the class that is emmiting the signal.

6.4.3.2 void BrisaWebService::genericRequestReceived (const QString & *method*, const QMultiHash< QString, QString > & *headers*, const QByteArray & *requestContent*, int *sessionId*, int *requestId*) [signal]

This signal is emmited when BrisaWebService receives a request.

Referenced by BrisaUpnp::BrisaEventController::BrisaEventController().

6.4.3.3 void BrisaWebService::pageRequestedEvent (QxtWebRequestEvent * *event*) [inline, slot]

Reimplemented from libQxt. This method receives all web service requests and emits a genericRequestReceived() signal. If the request method is of "POST" type, the web service will reply a default message.

6.4.3.4 void BrisaWebService::respond (const QHttpResponseHeader & *response*, const int & *sessionId*, const int & *requestId*) [inline, slot]

Reimplements respond(). This method responds only a HTTP header using the given session and request ID.

6.4.3.5 void BrisaWebService::respond (const QHttpResponseHeader & *response*) [inline, slot]

Reimplements respond() This method responds only a HTTP header to the session and request ID stored in BrisaWebService.

6.4.3.6 void BrisaWebService::respond (const QByteArray & *response*, const int & *sessionId*, const int & *requestId*) [inline, slot]

Reimplements respond(). We recommend using this method given the fact that it supports asynchronous requests.

6.4.3.7 void BrisaWebService::respond (QByteArray *response*) [inline, slot]

Responds *response* to the session and request ID currently stored in BrisaWebService, if using this method the response must be synchronous because the request and session ID can change quickly.

Referenced by BrisaUpnp::BrisaEventController::subscribe(), and BrisaUpnp::BrisaEventController::unsubscribe().

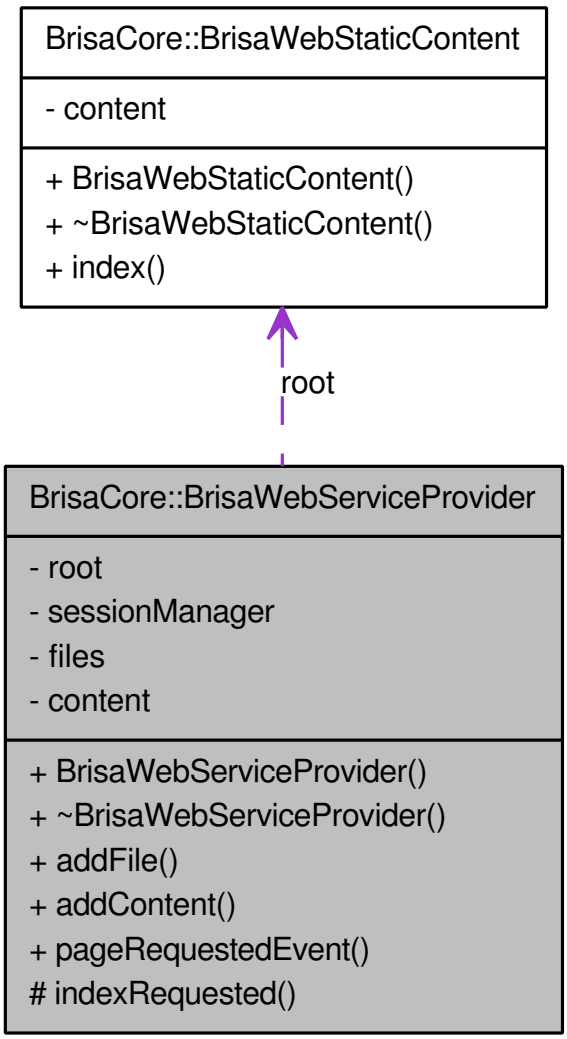
The documentation for this class was generated from the following files:

- src/core/brisawebserver.h
- src/core/brisawebserver.cpp

6.5 BrisaCore::BrisaWebServiceProvider Class Reference

The BrisaWebServiceProvider class works as web service manager for the web server.

`#include <BrisaCore/BrisaWebServiceProvider>`Collaboration diagram for BrisaCore::BrisaWebServiceProvider:



Public Member Functions

- BrisaWebServiceProvider (QxtAbstractWebSessionManager *sm, QObject *parent)

  Constructor for BrisaWebServiceProvider.

- ~BrisaWebServiceProvider ()

  Destructor for BrisaWebServiceProvider.

- void addFile (const QString path, QString filePath)

  Call this method to add a BrisaWebFile to the web service.

- void addContent (const QString path, QString content)

  Call this method to add a BrisaWebStaticContent to the web service.

- void pageRequestedEvent (QxtWebRequestEvent ∗event)

Protected Member Functions

- void indexRequested (QxtWebRequestEvent ∗event)

6.5.1 Detailed Description

The BrisaWebServiceProvider class works as web service manager for the web server. The BrisaWebServiceProvider has convenience methods for managing web services, like addFile() and addContent(). It also keeps track of all files and content stored into the web service.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 BrisaWebServiceProvider::BrisaWebServiceProvider (QxtAbstractWebSessionManager ∗ *sm*, QObject ∗ *parent*) [inline]

Constructor for BrisaWebServiceProvider.

6.5.2.2 BrisaWebServiceProvider::∼BrisaWebServiceProvider () [inline]

Destructor for BrisaWebServiceProvider.

6.5.3 Member Function Documentation

6.5.3.1 void BrisaWebServiceProvider::addContent (const QString *path*, QString *content*)

Call this method to add a BrisaWebStaticContent to the web service.

6.5.3.2 void BrisaWebServiceProvider::addFile (const QString *path*, QString *filePath*)

Call this method to add a BrisaWebFile to the web service.

Referenced by BrisaUpnp::BrisaService::buildWebServiceTree(), and BrisaCore::BrisaWebserver::publishFile().

6.5.3.3 void BrisaCore::BrisaWebServiceProvider::indexRequested (QxtWebRequestEvent ∗ *event*) [inline, protected]

Referenced by pageRequestedEvent().

6.5.3.4 void BrisaWebServiceProvider::pageRequestedEvent (QxtWebRequestEvent ∗ *event*)

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

- src/core/brisawebserver.h
- src/core/brisawebserver.cpp

6.6 BrisaCore::BrisaWebStaticContent Class Reference

The BrisaWebStaticContent class stores a QString into the web server.

`#include <BrisaCore/BrisaWebStaticContent>`

Public Slots

- void index (QxtWebRequestEvent *event)

Public Member Functions

- BrisaWebStaticContent (QxtAbstractWebSessionManager *sm, QString content, QObject *parent=0)

  Constructor for BrisaWebStaticContent.

- ~BrisaWebStaticContent ()

  Destructor for BrisaWebStaticContent.

6.6.1 Detailed Description

The BrisaWebStaticContent class stores a QString into the web server. Use this class to store static content in the web server using a string format.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 BrisaWebStaticContent::BrisaWebStaticContent (QxtAbstractWebSessionManager * *sm*, QString *content*, QObject * *parent* = 0) [inline]

Constructor for BrisaWebStaticContent. Stores the given QString.

6.6.2.2 BrisaWebStaticContent::~BrisaWebStaticContent () [inline]

Destructor for BrisaWebStaticContent.

6.6.3 Member Function Documentation

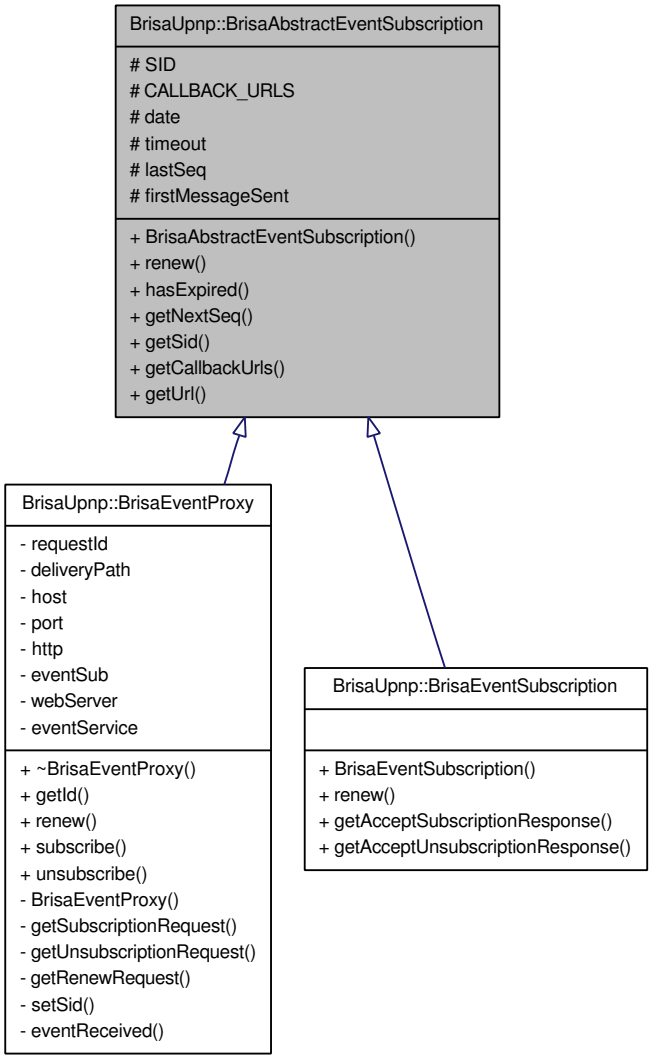
6.6.3.1 void BrisaCore::BrisaWebStaticContent::index (QxtWebRequestEvent * *event*) [inline, slot]

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

- src/core/brisawebserver.h
- src/core/brisawebserver.cpp

6.7 BrisaUpnp::BrisaAbstractEventSubscription Class Reference

`#include <brisaabstracteventsubscription.h>`Inheritance diagram for BrisaUpnp::BrisaAbstractEventSubscription:



Public Member Functions

- BrisaAbstractEventSubscription (const QString &sid, const QStringList &callbackUrls, const int &timeout=-1, QObject *parent=0)

  Construtcs an abstract event subscription with given sid, list of callbackUrls, timeout and parent.

- virtual void renew (const int &newTimeout=-1)=0

  Renews the subscription for the given newTimeout.

- bool hasExpired () const

  Checks if the subscription has already expired.

- quint32 getNextSeq ()

  Returns the next event key for this subscription.

- QString getSid () const

  Returns this subscription's SID.

- QStringList getCallbackUrls () const

  Returns this subscription's list of callback URLs.

- QUrl getUrl ()

  Returns this subscription's first callback URL.

Protected Attributes

- QString SID
- const QStringList CALLBACK_URLS
- QDateTime date
- int timeout
- quint32 lastSeq
- bool firstMessageSent

6.7.1 Constructor & Destructor Documentation

6.7.1.1 BrisaAbstractEventSubscription::BrisaAbstractEventSubscription (const QString & *sid*, const QStringList & *callbackUrls*, const int & *timeout* = `-1`, QObject * *parent* = `0`)

Construtcs an abstract event subscription with given *sid*, list of *callbackUrls*, *timeout* and *parent*. *timeout* less than 0 means infinite.

6.7.2 Member Function Documentation

6.7.2.1 QStringList BrisaAbstractEventSubscription::getCallbackUrls () const

Returns this subscription's list of callback URLs.

Referenced by BrisaUpnp::BrisaEventMessage::getMessageHeader().

6.7.2.2 quint32 BrisaAbstractEventSubscription::getNextSeq ()

Returns the next event key for this subscription.

6.7.2.3 QString BrisaAbstractEventSubscription::getSid () const

Returns this subscription's SID.

Referenced by BrisaUpnp::BrisaEventMessage::getMessageHeader(), and BrisaUpnp::BrisaEventController::subscribe().

6.7.2.4 QUrl BrisaAbstractEventSubscription::getUrl ()

Returns this subscription's first callback URL.

Referenced by BrisaUpnp::BrisaEventController::subscribe().

6.7.2.5 bool BrisaAbstractEventSubscription::hasExpired () const

Checks if the subscription has already expired. Returns true if it has expired, else returns false.

6.7.2.6 void BrisaAbstractEventSubscription::renew (const int & *newTimeout* = `-1`) `[pure virtual]`

Renews the subscription for the given *newTimeout*.

Implemented in BrisaUpnp::BrisaEventProxy, and BrisaUpnp::BrisaEventSubscription.

6.7.3 Member Data Documentation

6.7.3.1 const QStringList BrisaUpnp::BrisaAbstractEventSubscription::CALLBACK_URLS `[protected]`

Referenced by getCallbackUrls(), and getUrl().

6.7.3.2 QDateTime BrisaUpnp::BrisaAbstractEventSubscription::date `[protected]`

Referenced by hasExpired(), BrisaUpnp::BrisaEventSubscription::renew(), and renew().

6.7.3.3 bool BrisaUpnp::BrisaAbstractEventSubscription::firstMessageSent `[protected]`

Referenced by getNextSeq().

6.7.3.4 quint32 BrisaUpnp::BrisaAbstractEventSubscription::lastSeq `[protected]`

Referenced by getNextSeq().

6.7.3.5 QString BrisaUpnp::BrisaAbstractEventSubscription::SID `[protected]`

Referenced by BrisaUpnp::BrisaEventSubscription::getAcceptSubscriptionResponse(), and getSid().

6.7.3.6 int BrisaUpnp::BrisaAbstractEventSubscription::timeout `[protected]`

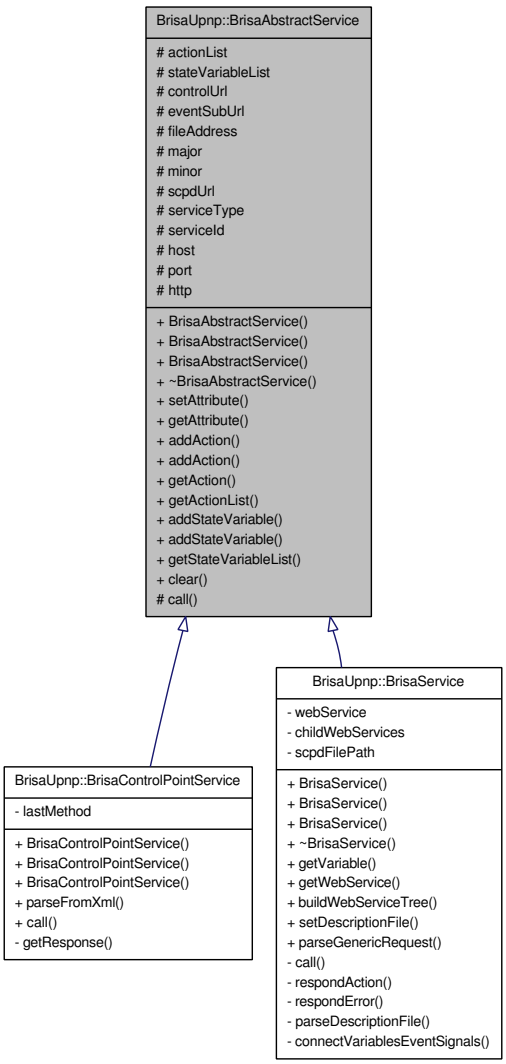
Referenced by BrisaUpnp::BrisaEventSubscription::getAcceptSubscriptionResponse(), hasExpired(), BrisaUpnp::BrisaEventSubscription::renew(), and renew().

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

- src/upnp/brisaabstracteventsubscription.h
- src/upnp/brisaabstracteventsubscription.cpp

6.8 BrisaUpnp::BrisaAbstractService Class Reference

`#include <brisaabstractservice.h>`Inheritance diagram for BrisaUpnp::BrisaAbstractService:



Public Types

- enum xmlTags {
  Major, Minor, FileAddress, ServiceType,
  ServiceId, ScpdUrl, ControlUrl, EventSubUrl,
  Host, Port }

Signals

- void requestFinished (QString root, QString lastMethod)

Public Member Functions

- BrisaAbstractService (QObject *parent=0)
- BrisaAbstractService (const QString &serviceType, const QString &serviceId="", const QString &scpdUrl="", const QString &controlUrl="", const QString &eventSubUrl="", const QString &host="", QObject *parent=0)
- BrisaAbstractService (BrisaAbstractService &service)
- virtual ~BrisaAbstractService ()
- void setAttribute (xmlTags key, const QString &value)
- QString getAttribute (xmlTags key)
- void addAction (const QString &name)
- void addAction (BrisaAction *action)
- BrisaAction * getAction (const QString &name)
- QList< BrisaAction * > getActionList ()
- void addStateVariable (BrisaStateVariable *stateVariable)
- void addStateVariable (const QString &sendEvents, const QString &name, const QString &datatype, const QString &defaultValue, const QString &maximum, const QString &minimum, const QString &step)
- const QList< BrisaStateVariable * > getStateVariableList ()
- void clear ()

Protected Member Functions

- virtual void call (const QString &method, const QMap< QString, QString > &param)=0

Protected Attributes

- QList< BrisaAction * > actionList
- QList< BrisaStateVariable * > stateVariableList
- QString controlUrl
- QString eventSubUrl
- QString fileAddress
- QString major
- QString minor
- QString scpdUrl
- QString serviceType
- QString serviceId
- QString host
- int port
- QtSoapHttpTransport http

6.8.1 Member Enumeration Documentation

6.8.1.1 enum BrisaUpnp::BrisaAbstractService::xmlTags

Enumerator:

Major

Minor

FileAddress

ServiceType

ServiceId

ScpdUrl

ControlUrl

EventSubUrl

Host

Port

6.8.2 Constructor & Destructor Documentation

6.8.2.1 BrisaAbstractService::BrisaAbstractService (QObject * *parent* = 0)

6.8.2.2 BrisaAbstractService::BrisaAbstractService (const QString & *serviceType*, const QString & *serviceId* = "", const QString & *scpdUrl* = "", const QString & *controlUrl* = "", const QString & *eventSubUrl* = "", const QString & *host* = "", QObject * *parent* = 0)

6.8.2.3 BrisaAbstractService::BrisaAbstractService (BrisaAbstractService & *service*)

6.8.2.4 BrisaAbstractService::~BrisaAbstractService () [virtual]

6.8.3 Member Function Documentation

6.8.3.1 void BrisaAbstractService::addAction (BrisaAction * *action*)

6.8.3.2 void BrisaAbstractService::addAction (const QString & *name*)

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.8.3.3 void BrisaAbstractService::addStateVariable (const QString & *sendEvents*, const QString & *name*, const QString & *datatype*, const QString & *defaultValue*, const QString & *maximum*, const QString & *minimum*, const QString & *step*)

6.8.3.4 void BrisaAbstractService::addStateVariable (BrisaStateVariable * *stateVariable*)

Referenced by addStateVariable(), and BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.8.3.5 virtual void BrisaUpnp::BrisaAbstractService::call (const QString & *method*, const QMap< QString, QString > & *param*) [protected, pure virtual]

Implemented in BrisaUpnp::BrisaControlPointService.

6.8.3.6 void BrisaAbstractService::clear ()

6.8.3.7 BrisaAction * BrisaAbstractService::getAction (const QString & *name*)

Referenced by addAction(), and BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.8.3.8 QList< BrisaAction * > BrisaAbstractService::getActionList ()

Referenced by BrisaAbstractService().

6.8.3.9 QString BrisaAbstractService::getAttribute (xmlTags *key*)

Referenced by BrisaAbstractService(), BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), BrisaUpnp::BrisaDevice::getServiceById(), BrisaUpnp::BrisaDevice::getServiceByType(), and BrisaUpnp::BrisaControlPoint::getSubscriptionProxy().

6.8.3.10 const QList< BrisaStateVariable * > BrisaAbstractService::getStateVariableList ()

6.8.3.11 void BrisaUpnp::BrisaAbstractService::requestFinished (QString *root*, QString *lastMethod*) [signal]

6.8.3.12 void BrisaAbstractService::setAttribute (xmlTags *key*, const QString & *value*)

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::characters(), and BrisaUpnp::BrisaServiceXMLHandler::characters().

6.8.4 Member Data Documentation

6.8.4.1 QList<BrisaAction *> BrisaUpnp::BrisaAbstractService::actionList [protected]

Referenced by addAction(), BrisaAbstractService(), getAction(), getActionList(), and ~BrisaAbstractService().

6.8.4.2 QString BrisaUpnp::BrisaAbstractService::controlUrl [protected]

Referenced by BrisaUpnp::BrisaService::buildWebServiceTree(), BrisaUpnp::BrisaControlPointService::call(), clear(), getAttribute(), and setAttribute().

6.8.4.3 QString BrisaUpnp::BrisaAbstractService::eventSubUrl [protected]

Referenced by BrisaUpnp::BrisaService::buildWebServiceTree(), clear(), getAttribute(), and setAttribute().

6.8.4.4 QString BrisaUpnp::BrisaAbstractService::fileAddress [protected]

Referenced by clear(), getAttribute(), and setAttribute().

6.8.4.5 QString BrisaUpnp::BrisaAbstractService::host [protected]

Referenced by clear(), getAttribute(), and setAttribute().

6.8.4.6 QtSoapHttpTransport BrisaUpnp::BrisaAbstractService::http [protected]

Referenced by BrisaAbstractService(), BrisaUpnp::BrisaControlPointService::BrisaControlPointService(), BrisaUpnp::BrisaControlPointService::call(), and setAttribute().

6.8.4.7 QString BrisaUpnp::BrisaAbstractService::major [protected]

Referenced by BrisaAbstractService(), clear(), getAttribute(), and setAttribute().

6.8.4.8 QString BrisaUpnp::BrisaAbstractService::minor [protected]

Referenced by BrisaAbstractService(), clear(), getAttribute(), and setAttribute().

6.8.4.9 int BrisaUpnp::BrisaAbstractService::port [protected]

Referenced by BrisaAbstractService(), clear(), getAttribute(), and setAttribute().

6.8.4.10 QString BrisaUpnp::BrisaAbstractService::scpdUrl [protected]

Referenced by BrisaUpnp::BrisaService::buildWebServiceTree(), clear(), getAttribute(), and setAttribute().

6.8.4.11 QString BrisaUpnp::BrisaAbstractService::serviceId [protected]

Referenced by clear(), getAttribute(), and setAttribute().

6.8.4.12 QString BrisaUpnp::BrisaAbstractService::serviceType [protected]

Referenced by BrisaUpnp::BrisaControlPointService::call(), clear(), getAttribute(), BrisaUpnp::BrisaService::parseGenericRequest(), and setAttribute().

6.8.4.13 QList<BrisaStateVariable *> BrisaUpnp::BrisaAbstractService::stateVariableList [protected]

Referenced by addStateVariable(), BrisaUpnp::BrisaService::buildWebServiceTree(), getStateVariableList(), BrisaUpnp::BrisaService::getVariable(), and ~BrisaAbstractService().

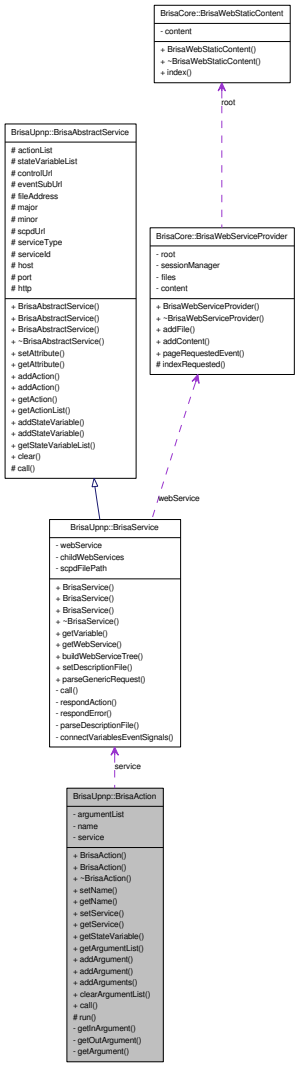
The documentation for this class was generated from the following files:

- src/upnp/brisaabstractservice.h
- src/upnp/brisaabstractservice.cpp

6.9 BrisaUpnp::BrisaAction Class Reference

Template method class that represents each service's action.

`#include <BrisaUpnp/BrisaAction>`Collaboration diagram for BrisaUpnp::BrisaAction:



Public Member Functions

- BrisaAction (QString name="", BrisaService ∗service=0, QObject ∗parent=0)

  Constructs an action with given name, parent and service that it is related to.

- BrisaAction (const BrisaAction &action)

  Constructs a new action based on action.

- virtual ~BrisaAction ()

  Destroys the action.

- void setName (QString name)

  Sets a new name to the action.

- QString getName () const

  Returns the action's name.

- void setService (BrisaService *service)

  Sets a new service for this action.

- BrisaService * getService () const

  Returns the service that this action is related to.

- BrisaStateVariable * getStateVariable (const QString &name) const

  Returns the related service's state variable with the given name.

- QList< BrisaArgument * > getArgumentList () const

  Returns this action's list of arguments.

- void addArgument (QString name="", QString direction="", QString relatedStateVariable="")

  Adds an argument with given name, direction and relatedStateVariable to this action's list of arguments.

- void addArgument (BrisaArgument *argumentA)

  Adds given argument to this action's list of arguments.

- void addArguments (const QList< BrisaArgument * > argumentA)

  Adds given list of arguments to this action's list of arguments.

- void clearArgumentList ()

  Clears this action's argument list.

- bool call (const QMap< QString, QString > &inArguments, QMap< QString, QString > &outArguments)

  Validates inArguments, outArguments and runs the action.

Protected Member Functions

- virtual QMap< QString, QString > run (const QMap< QString, QString > &inArguments)

  The actual action.

6.9.1 Detailed Description

Template method class that represents each service's action. Create a class derived from BrisaAction and reimplement the method run(). That method is the one which is called when this action is invoked and defines the action's behavior.

The method run() receives a QMap<QString, QString> with the input arguments. They are organized as key -- the argument name -- and value -- the argument value. It has to return a QMap<QString, QString> with the output arguments organized the same way.

If any of the returned output arguments is not defined in the service description file, BrisaAction will show an error message at the debug output stream and send an error message to the control point.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 BrisaAction::BrisaAction (QString *name* = "", BrisaService * *service* = 0, QObject * *parent* = 0)

Constructs an action with given *name*, *parent* and *service* that it is related to.

6.9.2.2 BrisaAction::BrisaAction (const BrisaAction & *action*)

Constructs a new action based on *action*.

6.9.2.3 BrisaAction::~BrisaAction () [virtual]

Destroys the action. It has to be overridden for properly destroying the derived actions when necessary.

6.9.3 Member Function Documentation

6.9.3.1 void BrisaAction::addArgument (BrisaArgument * *argumentA*)

Adds given *argument* to this action's list of arguments.

6.9.3.2 void BrisaAction::addArgument (QString *name* = "", QString *direction* = "", QString *relatedStateVariable* = "")

Adds an argument with given *name*, *direction* and *relatedStateVariable* to this action's list of arguments.

Referenced by addArguments(), and BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.9.3.3 void BrisaAction::addArguments (const QList< BrisaArgument * > *argumentA*)

Adds given list of *arguments* to this action's list of arguments.

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.9.3.4 bool BrisaAction::call (const QMap< QString, QString > & *inArguments*, QMap< QString, QString > & *outArguments*)

Validates *inArguments*, *outArguments* and runs the action. *outArguments* is an output parameter. This method returns true in case of successful running of the action, else returns false.

6.9.3.5 void BrisaAction::clearArgumentList ()

Clears this action's argument list.

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.9.3.6 QList< BrisaArgument * > BrisaAction::getArgumentList () const

Returns this action's list of arguments.

Referenced by BrisaAction(), and BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.9.3.7 QString BrisaAction::getName () const

Returns the action's name.

Referenced by BrisaUpnp::BrisaAbstractService::addAction(), call(), BrisaUpnp::BrisaServiceXMLHandler::endElement(), and getStateVariable().

6.9.3.8 BrisaService * BrisaAction::getService () const

Returns the service that this action is related to.

Referenced by getStateVariable().

6.9.3.9 BrisaStateVariable * BrisaAction::getStateVariable (const QString & *name*) const

Returns the related service's state variable with the given *name*. If it cannot find its related service or the state variable, then it returns a null pointer.

6.9.3.10 QMap< QString, QString > BrisaAction::run (const QMap< QString, QString > & *inArguments*) [protected, virtual]

The actual action. This method must be reimplemented for each user's action. It receives *inArguments* as input arguments and must return the right output arguments as described in the service's description file.

Referenced by call().

6.9.3.11 void BrisaAction::setName (QString *name*)

Sets a new name to the action.

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters().

6.9.3.12 void BrisaAction::setService (BrisaService * *service*)

Sets a new service for this action.

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

- src/upnp/brisaaction.h
- src/upnp/brisaaction.cpp

6.10 BrisaUpnp::BrisaActionXmlParser Class Reference

XML parser for SOAP requests.

`#include <BrisaUpnp/BrisaActionXmlParser>`

Public Member Functions

- BrisaActionXmlParser ()

  Constructor.

- virtual ~BrisaActionXmlParser ()

  Destructor.

- bool parseSOAP ()

  Call this method to parse the SOAP request set by the setXmlContent method.

- void parseElement (QDomElement &element)
- void setXmlContent (const QByteArray &content)

  Sets the content to be parsed.

Public Attributes

- QMap< QString, QString > args
- QString method
- QString serviceType

6.10.1 Detailed Description

XML parser for SOAP requests. BrisaActionXmlParser parses information coming from the webserver. If a action is detected, public class members args, method, serviceType will be filled with the parsed data.

BrisaActionXmlParser uses DOM.

6.10.2 Constructor & Destructor Documentation

6.10.2.1 BrisaActionXmlParser::BrisaActionXmlParser ()

Constructor.

6.10.2.2 BrisaActionXmlParser::~BrisaActionXmlParser () `[virtual]`

Destructor.

6.10.3 Member Function Documentation

6.10.3.1 void BrisaActionXmlParser::parseElement (QDomElement & *element*)

Referenced by parseSOAP().

6.10.3.2 bool BrisaActionXmlParser::parseSOAP ()

Call this method to parse the SOAP request set by the setXmlContent method.

Referenced by BrisaUpnp::BrisaService::parseGenericRequest().

6.10.3.3 void BrisaActionXmlParser::setXmlContent (const QByteArray & *content*)

Sets the content to be parsed.

Referenced by BrisaUpnp::BrisaService::parseGenericRequest().

6.10.4 Member Data Documentation

6.10.4.1 QMap<QString, QString> BrisaUpnp::BrisaActionXmlParser::args

Referenced by parseElement(), and BrisaUpnp::BrisaService::parseGenericRequest().

6.10.4.2 QString BrisaUpnp::BrisaActionXmlParser::method

Referenced by parseElement(), BrisaUpnp::BrisaService::parseGenericRequest(), and parseSOAP().

6.10.4.3 QString BrisaUpnp::BrisaActionXmlParser::serviceType

Referenced by parseElement(), BrisaUpnp::BrisaService::parseGenericRequest(), and parseSOAP().

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

- src/upnp/device/brisaactionxmlparser.h
- src/upnp/device/brisaactionxmlparser.cpp

6.11 BrisaUpnp::BrisaArgument Class Reference

`#include <brisaargument.h>`

Public Types

- enum xmlArgument { ArgumentName, Direction, RelatedStateVariable }

Public Member Functions

- BrisaArgument (const QString &name="", const QString &direction="", const QString &relatedStateVariable="")
- void setAttribute (xmlArgument key, const QString &value)
- QString getAttribute (xmlArgument key) const
- void clear ()

6.11.1 Member Enumeration Documentation

6.11.1.1 enum BrisaUpnp::BrisaArgument::xmlArgument

Enumerator:

ArgumentName

Direction

RelatedStateVariable

6.11.2 Constructor & Destructor Documentation

6.11.2.1 BrisaArgument::BrisaArgument (const QString & *name* = "", const QString & *direction* = "", const QString & *relatedStateVariable* = "")

6.11.3 Member Function Documentation

6.11.3.1 void BrisaArgument::clear ()

6.11.3.2 QString BrisaArgument::getAttribute (xmlArgument *key*) const

6.11.3.3 void BrisaArgument::setAttribute (xmlArgument *key*, const QString & *value*)

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters().

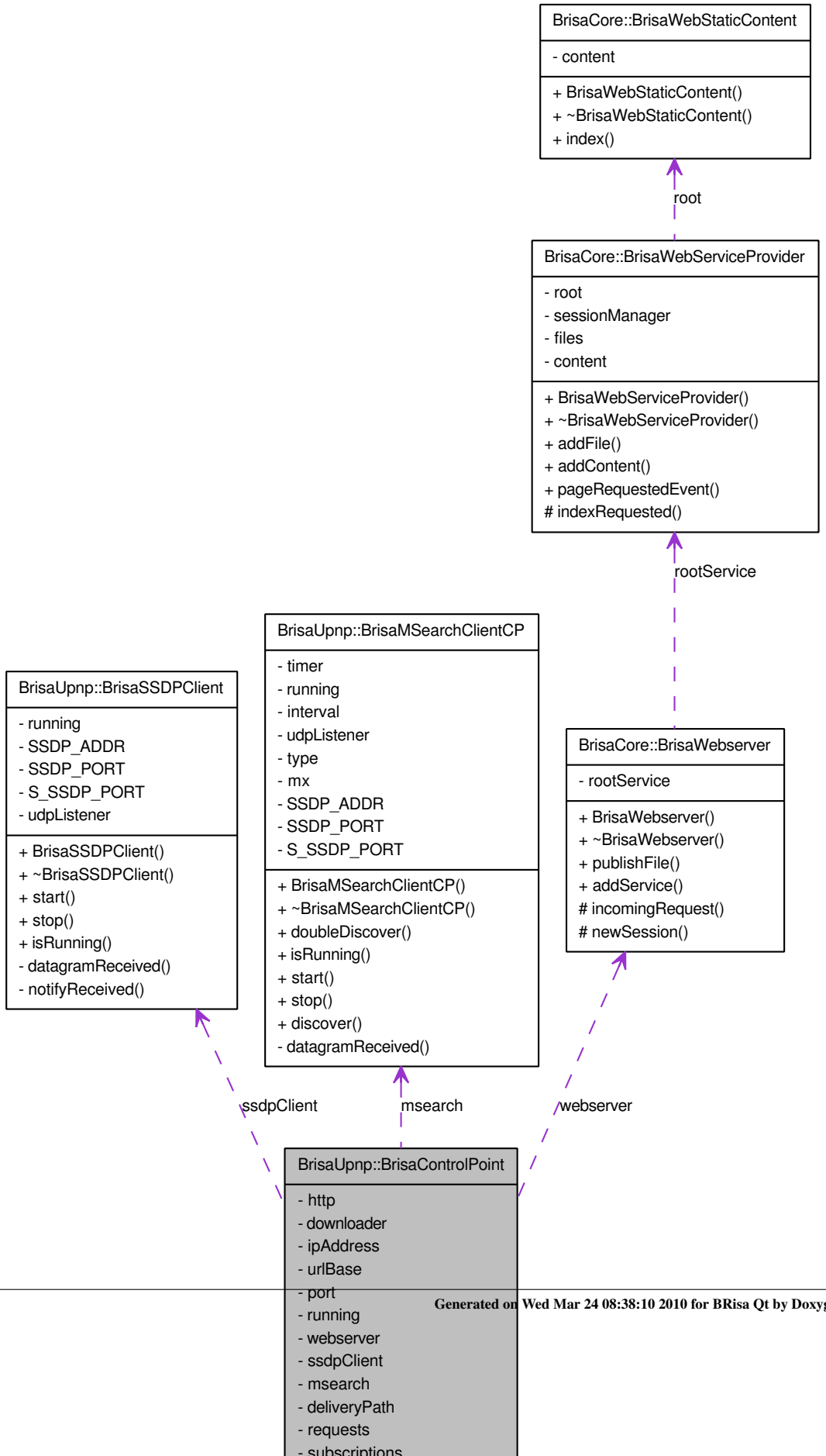
The documentation for this class was generated from the following files:

- src/upnp/brisaargument.h
- src/upnp/brisaargument.cpp

6.12 BrisaUpnp::BrisaControlPoint Class Reference

Class that implements the control part in UPnP Architecture.

`#include <BrisaUpnp/BrisaControlPoint>`Collaboration diagram for BrisaUpnp::BrisaControlPoint:



Signals

- void deviceFound (BrisaControlPointDevice *device)

  This signal is emitted when a new device is find in network and all it's attributes are created by the xml reading.

- void deviceGone (QString usn)

  This signal is emitted when a device leaves the network, that means that the the ssdp client received a "ssdp:byebye" message from the device and, to handle this, the control point emit a deviceGone event with the device's usn as parameter.

Public Member Functions

- BrisaControlPoint (QObject *parent=0, QString st="ssdp:all", int mx=5)

  Constructs a BrisaControlPoint with the given parent, the service type st and the passed interval mx.

- ~BrisaControlPoint ()

  Destructor of BrisaControlPoint class.

- void start ()

  This function starts the control point, the ssdpClient and the msearch.

- void stop ()

  This function stops the control point, the ssdpClient and the msearch.

- bool isRunning ()

  Returns true if the control point is running.

- void discover ()

  Starts the control point msearch discover.

- BrisaEventProxy * getSubscriptionProxy (BrisaControlPointService *service)

  Function to get a event proxy to subscribe, usubscribe or renew the events from a service.

6.12.1 Detailed Description

Class that implements the control part in UPnP Architecture. Create a ControlPoint and start(), then discover() devices will be found in network. If you don't want to look for more devices then use stop().

6.12.2 Constructor & Destructor Documentation

6.12.2.1 BrisaControlPoint::BrisaControlPoint (QObject * *parent* = `0`, QString *st* = `"ssdp:all"`, int *mx* = `5`)

Constructs a BrisaControlPoint with the given *parent*, the service type *st* and the passed interval *mx*.

6.12.2.2 BrisaControlPoint::~BrisaControlPoint ()

Destructor of BrisaControlPoint class.

6.12.3 Member Function Documentation

6.12.3.1 void BrisaControlPoint::deviceFound (BrisaControlPointDevice * *device*) [signal]

This signal is emitted when a new device is find in network and all it's attributes are created by the xml reading.

See also:

deviceGone(QString usn)

Referenced by BrisaControlPoint().

6.12.3.2 void BrisaControlPoint::deviceGone (QString *usn*) [signal]

This signal is emitted when a device leaves the network, that means that the the ssdp client received a "ssdp:byebye" message from the device and, to handle this, the control point emit a deviceGone event with the device's *usn* as parameter.

See also:

deviceFound(BrisaControlPointDevice *device)

6.12.3.3 void BrisaControlPoint::discover ()

Starts the control point msearch discover.

6.12.3.4 BrisaEventProxy * BrisaControlPoint::getSubscriptionProxy (BrisaControlPointService * *service*)

Function to get a event proxy to subscribe, usubscribe or renew the events from a *service*.

6.12.3.5 bool BrisaControlPoint::isRunning ()

Returns true if the control point is running.

See also:

start(), stop()

Referenced by start(), stop(), and ~BrisaControlPoint().

6.12.3.6 void BrisaControlPoint::start ()

This function starts the control point, the ssdpClient and the msearch.

See also:

stop(), isRunning()

6.12.3.7 void BrisaControlPoint::stop ()

This function stops the control point, the ssdpClient and the msearch.

See also:

start(), isRunning()

Referenced by ~BrisaControlPoint().

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

- src/upnp/controlpoint/brisacontrolpoint.h
- src/upnp/controlpoint/brisacontrolpoint.cpp

6.13 BrisaUpnp::BrisaControlPointDevice Class Reference

Class that implements the devices that control point part is going to handle.

`#include <BrisaUpnp/BrisaControlPointDevice>`

Public Types

- enum xmlTags {
  Major, Minor, UrlBase, DeviceType,
  FriendlyName, Manufacturer, ManufacturerUrl, ModelDescription,
  ModelName, ModelNumber, ModelUrl, SerialNumber,
  Udn, Upc, PresentationUrl, FileAddress }

  This enum specifies the devices attributes that are going to be set/get.

Public Member Functions

- BrisaControlPointDevice (QObject *parent=0)

  Constructor to BrisaControlPointDevice, when it makes use of this constructor the device's attributes should be set.

- BrisaControlPointDevice (QTemporaryFile *xml, QUrl *url, QObject *parent=0)

  Constructor for BrisaControlPointDevice that receives a xml file containing the device description, so that the device's attributes can be initialized.

- BrisaControlPointDevice (BrisaControlPointDevice &dev, QObject *parent=0)

  Constructor for BrisaControlPointDevice that receives another object of the same type and copy it's attributes.

- BrisaControlPointDevice (QString deviceType, QString friendlyName="", QString manufacturer="", QString manufacturerURL="", QString modelDescription="", QString modelName="", QString modelNumber="", QString modelURL="", QString serialNumber="", QString UDN="", QString UPC="", QString presentationURL="", QObject *parent=0)

  Constructor where all device's attributes are passed as parameter.

- ~BrisaControlPointDevice ()

  Destructor.

- QString getAttribute (xmlTags key)

  Gets the key attribute.

- void setAttribute (xmlTags key, QString value)

  Set a device's attribute, depending on the key that is passed as parameter, so that, the attribute e set to value v.

- void addIcon (BrisaIcon *icon)

  Add icon to device's icon list.

- void addService (BrisaControlPointService *service)
  Add serviceSwap to device's service list.
- void addDevice (BrisaControlPointDevice *device)
  Add device to device's embedded device list.
- QList< BrisaIcon * > getIconList ()
  Returns device's icon list.
- QList< BrisaControlPointService * > & getServiceList ()
  Returns device's service list.
- QList< BrisaControlPointDevice * > getEmbeddedDeviceList ()
  Returns device's embedded device list.
- BrisaControlPointService * getServiceById (QString serviceId)
  Check the device's service list and return the service that has the passed .
- BrisaControlPointService * getServiceByType (QString serviceType)
  Check the device's service list and return the service that has the passed .
- void clear ()
  Clear device's attributes.

6.13.1 Detailed Description

Class that implements the devices that control point part is going to handle.

6.13.2 Member Enumeration Documentation

6.13.2.1 enum BrisaUpnp::BrisaControlPointDevice::xmlTags

This enum specifies the devices attributes that are going to be set/get.

Parameters:

Major Major version of the UPnP Device Architecture.
Minor Minor version of the UPnP Device Architecture.
UrlBase Defines the base URL. Used to construct fully-qualified URLs.
DeviceType UPnP device type. Single URI.
FriendlyName Short description for end user.
Manufacturer Manufacturer's name.
ManufacturerUrl Web site for Manufacturer.
ModelDescription Long description for end user.
ModelName Model name. Should be less then 32 characters.
ModelNumber Model number. Should be less then 32 characters.
ModelUrl Web site for model.

SerialNumber Serial number. Should be less then 64 characters

Udn Unique Device Name. Universally-unique identifier for the device.

Upc Universal Product Code. 12-digit, all-numeric code that identifies the consumer package.

PresentationUrl URL to presentation for device.

FileAddress Device's file address.

See also:

setAttribute(xmlTags key, QString v), getAttribute(xmlTags key)

Enumerator:

Major

Minor

UrlBase

DeviceType

FriendlyName

Manufacturer

ManufacturerUrl

ModelDescription

ModelName

ModelNumber

ModelUrl

SerialNumber

Udn

Upc

PresentationUrl

FileAddress

6.13.3 Constructor & Destructor Documentation

6.13.3.1 BrisaControlPointDevice::BrisaControlPointDevice (QObject * *parent* = 0)

Constructor to BrisaControlPointDevice, when it makes use of this constructor the device's attributes should be set.

6.13.3.2 BrisaControlPointDevice::BrisaControlPointDevice (QTemporaryFile * *xml*, QUrl * *url*, QObject * *parent* = 0)

Constructor for BrisaControlPointDevice that receives a xml file containing the device description, so that the device's attributes can be initialized.

6.13.3.3 BrisaControlPointDevice::BrisaControlPointDevice (BrisaControlPointDevice & *dev*, QObject * *parent* = 0)

Constructor for BrisaControlPointDevice that receives another object of the same type and copy it's attributes.

6.13.3.4 BrisaControlPointDevice::BrisaControlPointDevice (QString *deviceType*, QString *friendlyName* = "", QString *manufacturer* = "", QString *manufacturerURL* = "", QString *modelDescription* = "", QString *modelName* = "", QString *modelNumber* = "", QString *modelURL* = "", QString *serialNumber* = "", QString *UDN* = "", QString *UPC* = "", QString *presentationURL* = "", QObject * *parent* = 0)

Constructor where all device's attributes are passed as parameter.

6.13.3.5 BrisaControlPointDevice::~BrisaControlPointDevice ()

Destructor.

6.13.4 Member Function Documentation

6.13.4.1 void BrisaControlPointDevice::addDevice (BrisaControlPointDevice * *device*)

Add *device* to device's embedded device list.

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

6.13.4.2 void BrisaControlPointDevice::addIcon (BrisaIcon * *icon*)

Add *icon* to device's icon list.

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

6.13.4.3 void BrisaControlPointDevice::addService (BrisaControlPointService * *service*)

Add *serviceSwap* to device's service list.

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

6.13.4.4 void BrisaControlPointDevice::clear ()

Clear device's attributes.

6.13.4.5 QString BrisaControlPointDevice::getAttribute (xmlTags *key*)

Gets the *key* attribute.

Referenced by BrisaControlPointDevice(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

6.13.4.6 QList< BrisaControlPointDevice * > BrisaControlPointDevice::getEmbeddedDeviceList ()

Returns device's embedded device list.

Referenced by BrisaControlPointDevice().

6.13.4.7 QList< BrisaIcon * > BrisaControlPointDevice::getIconList ()

Returns device's icon list.

Referenced by BrisaControlPointDevice().

6.13.4.8 BrisaControlPointService * BrisaControlPointDevice::getServiceById (QString *serviceId*)

Check the device's service list and return the service that has the passed .

6.13.4.9 BrisaControlPointService * BrisaControlPointDevice::getServiceByType (QString *serviceType*)

Check the device's service list and return the service that has the passed .

6.13.4.10 QList< BrisaControlPointService * > & BrisaControlPointDevice::getServiceList ()

Returns device's service list.

Referenced by BrisaControlPointDevice().

6.13.4.11 void BrisaControlPointDevice::setAttribute (xmlTags *key*, QString *value*)

Set a device's attribute, depending on the *key* that is passed as parameter, so that, the attribute e set to value *v*.

Referenced by BrisaControlPointDevice(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::characters().

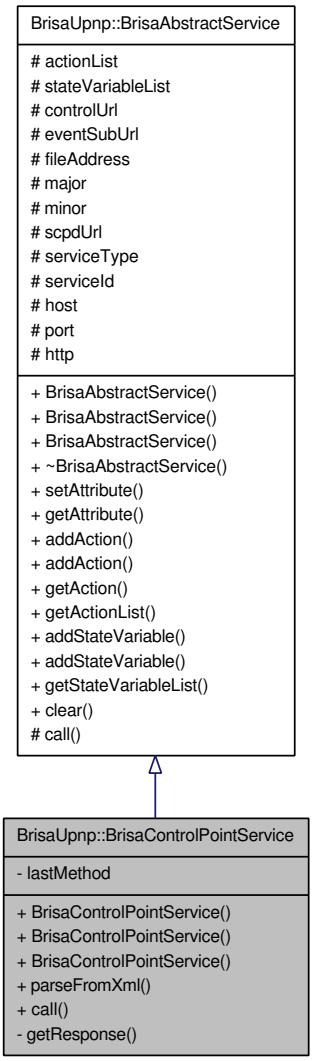
The documentation for this class was generated from the following files:

- src/upnp/controlpoint/brisacontrolpointdevice.h
- src/upnp/controlpoint/brisacontrolpointdevice.cpp

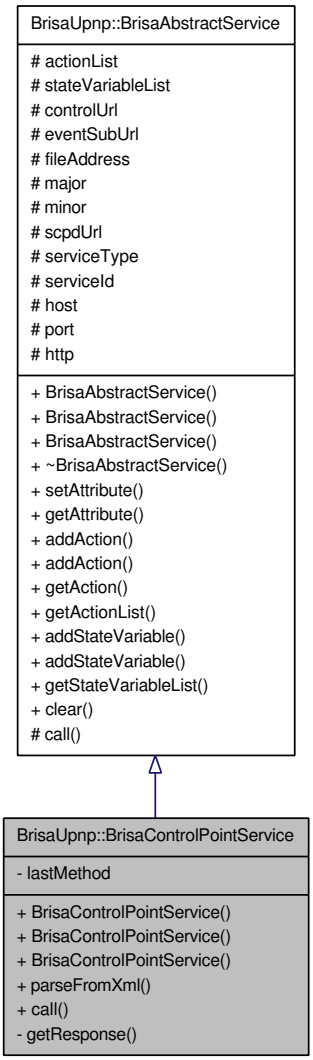
6.14 BrisaUpnp::BrisaControlPointService Class Reference

BrisaControlPointService is the class that implements action control in UPnP Architecture.

`#include <BrisaUpnp/BrisaControlPointService>`Inheritance diagram for BrisaUpnp::BrisaControlPointService:



Collaboration diagram for BrisaUpnp::BrisaControlPointService:



Public Member Functions

- BrisaControlPointService (QObject ∗parent=0)

  Constructs an empty BrisaControlPointService.

- BrisaControlPointService (const QString &serviceType, const QString &serviceId="", const QString &scpdUrl="", const QString &controlUrl="", const QString &eventSubUrl="", const QString &host="", QObject ∗parent=0)

  Constructs a BrisaControlPointService with the passed attributes.

- BrisaControlPointService (BrisaControlPointService &service)

  Constructs a copy of serv.

- void parseFromXml (QTemporaryFile ∗xml)

Initializes the BrisaControlPointService from the parse of xml that is a xml description file containing the service information.

- void call (const QString &method, const QMap< QString, QString > &param)

  Call the method, with the passed param from a service, this action is performed by a webservice request.

6.14.1 Detailed Description

BrisaControlPointService is the class that implements action control in UPnP Architecture. It performs the action requests it's used in control point part, so that the user can make action calls.

BrisaControlPointService is a BrisaAbstractService.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 BrisaControlPointService::BrisaControlPointService (QObject * *parent* = 0)

Constructs an empty BrisaControlPointService.

6.14.2.2 BrisaControlPointService::BrisaControlPointService (const QString & *serviceType*, const QString & *serviceId* = "", const QString & *scpdUrl* = "", const QString & *controlUrl* = "", const QString & *eventSubUrl* = "", const QString & *host* = "", QObject * *parent* = 0)

Constructs a BrisaControlPointService with the passed attributes.

6.14.2.3 BrisaControlPointService::BrisaControlPointService (BrisaControlPointService & *service*)

Constructs a copy of *serv*.

6.14.3 Member Function Documentation

6.14.3.1 void BrisaControlPointService::call (const QString & *method*, const QMap< QString, QString > & *param*) [virtual]

Call the *method*, with the passed *param* from a service, this action is performed by a webservice request.

Implements BrisaUpnp::BrisaAbstractService.

6.14.3.2 void BrisaControlPointService::parseFromXml (QTemporaryFile * *xml*)

Initializes the BrisaControlPointService from the parse of *xml* that is a xml description file containing the service information.

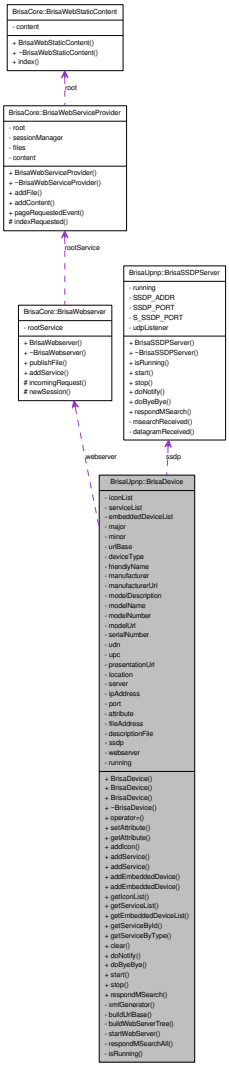
The documentation for this class was generated from the following files:

- src/upnp/controlpoint/brisacontrolpointservice.h
- src/upnp/controlpoint/brisacontrolpointservice.cpp

6.15 BrisaUpnp::BrisaDevice Class Reference

UPnP device implementation.

`#include <BrisaUpnp/BrisaDevice>`Collaboration diagram for BrisaUpnp::BrisaDevice:



Public Types

- enum xmlTags {
  Major, Minor, UrlBase, DeviceType,
  FriendlyName, Manufacturer, ManufacturerUrl, ModelDescription,
  ModelName, ModelNumber, ModelUrl, SerialNumber,
  Udn, Upc, PresentationUrl, FileAddress,
  Location, Server, IpAddress, Port,
  Running }

Public Slots

- void respondMSearch (const QString &st, const QString &senderIp, quint16 senderPort)

  Slot connected to the msearchRequestReceived() signal comming from the ssdp module.

Public Member Functions

- BrisaDevice (QObject *parent=0)

  Creates a BrisaDevice with the given parent QObject.

- BrisaDevice (const BrisaDevice &dev)

  Copy constructor.

- BrisaDevice (const QString &deviceType, QString friendlyName="", const QString &manufacturer="", const QString &manufacturerURL="", const QString &modelDescription="", const QString &modelName="", const QString &modelNumber="", const QString &modelURL="", const QString &serialNumber="", const QString &UDN="", const QString &UPC="", const QString &presentationURL="", QObject *parent=0)

  Creates a BrisaDevice with the given device information.

- ~BrisaDevice ()

  Destructor for BrisaDevice.

- BrisaDevice & operator= (const BrisaDevice &dev)

  Assigns dev to this BrisaDevice and returns a copy.

- void setAttribute (xmlTags key, const QString &value)

  Attribute setter.

- QString getAttribute (xmlTags key) const

  Attribute getter.

- void addIcon (const QString &mimetype="", const QString &width="", const QString &height="", const QString &depth="", const QString &url="")

  Call this method to add a icon to the device.

- void addService (const QString &serviceType="", const QString &serviceId="", const QString &SCPDURL="", const QString &controlURL="", const QString &eventSubURL="")

  Creates and adds a service to the device with the given information.

- void addService (BrisaService *serv)

  Overloads addService().

- void addEmbeddedDevice (const QString &deviceType="", const QString &friendlyName="", const QString &manufacturer="", const QString &manufacturerURL="", const QString &modelDescription="", const QString &modelName="", const QString &modelNumber="", const QString &modelURL="", const QString &serialNumber="", const QString &UDN="", const QString &UPC="", const QString &presentationURL="")

  Creates and adds a embedded device with the given information to the device.

- void addEmbeddedDevice (BrisaDevice *newEmbeddedDevice)

  Overloads addEmbeddedDevice().

- QList< BrisaIcon > getIconList () const

  Returns the icon list.

- QList< BrisaService * > getServiceList () const

  Returns the service list.

- QList< BrisaDevice * > getEmbeddedDeviceList () const

  Returns the embedded device list.

- BrisaService * getServiceById (const QString &serviceId)

  Getter for BrisaService in the service list.

- BrisaService * getServiceByType (const QString &serviceType)

  Getter for BrisaService in the service list.

- void clear ()

  Clears the device information, including services, icons and embedded devices.

- void doNotify ()

  Sends the ssdp:alive messages for root device, embedded devices and services according to the UPnP 1.0 especification.

- void doByeBye ()

  Sends the ssdp:byebye messages for root device, embedded devices and services according to the UPnP 1.0 especification.

- void start ()

  Call this method to join the network and start the device.

- void stop ()

  Stops the device and leaves the network.

6.15.1 Detailed Description

UPnP device implementation. BrisaDevice provides a easy and fast way to create UPnP devices. Simply create a new BrisaDevice and call start() to join the network and be visible to available control points.

To add a service to the device, just create a new BrisaService with the chosen actions and events and add it to the device by calling *addService()*. The service will be automatically added to the device and the appropriate webserver urls paths will be created.

Embedded devices are also supported by BrisaDevice. Create a new BrisaDevice and call *addEmbeddedDevice()*, the embedded device will be announced when the root device joins the network.

To stop the device and leave the network, simply call the *stop()* method, ssdp messages will also be sent for any embedded devices.

See also:

BrisaUpnp::BrisaService

6.15.2 Member Enumeration Documentation

6.15.2.1 enum BrisaUpnp::BrisaDevice::xmlTags

Enumerator:

Major

Minor

UrlBase

DeviceType

FriendlyName

Manufacturer

ManufacturerUrl

ModelDescription

ModelName

ModelNumber

ModelUrl

SerialNumber

Udn

Upc

PresentationUrl

FileAddress

Location

Server

IpAddress

Port

Running

6.15.3 Constructor & Destructor Documentation

6.15.3.1 BrisaDevice::BrisaDevice (QObject * *parent* = 0)

Creates a BrisaDevice with the given parent QObject.

Referenced by addEmbeddedDevice().

6.15.3.2 BrisaDevice::BrisaDevice (const BrisaDevice & *dev*)

Copy constructor.

6.15.3.3 BrisaDevice::BrisaDevice (const QString & *deviceType*, QString *friendlyName* = "", const QString & *manufacturer* = "", const QString & *manufacturerURL* = "", const QString & *modelDescription* = "", const QString & *modelName* = "", const QString & *modelNumber* = "", const QString & *modelURL* = "", const QString & *serialNumber* = "", const QString & *UDN* = "", const QString & *UPC* = "", const QString & *presentationURL* = "", QObject * *parent* = 0)

Creates a BrisaDevice with the given device information.

6.15.3.4 BrisaDevice::~BrisaDevice ()

Destructor for BrisaDevice. Stops the device if running.

6.15.4 Member Function Documentation

6.15.4.1 void BrisaDevice::addEmbeddedDevice (BrisaDevice * *newEmbeddedDevice*)

Overloads addEmbeddedDevice(). Create a new *BrisaDevice* and call this method to add it as a embedded device to a root device. We recommend using this method for better object orientation.

6.15.4.2 void BrisaDevice::addEmbeddedDevice (const QString & *deviceType* = "", const QString & *friendlyName* = "", const QString & *manufacturer* = "", const QString & *manufacturerURL* = "", const QString & *modelDescription* = "", const QString & *modelName* = "", const QString & *modelNumber* = "", const QString & *modelURL* = "", const QString & *serialNumber* = "", const QString & *UDN* = "", const QString & *UPC* = "", const QString & *presentationURL* = "")

Creates and adds a embedded device with the given information to the device.

6.15.4.3 void BrisaDevice::addIcon (const QString & *mimetype* = "", const QString & *width* = "", const QString & *height* = "", const QString & *depth* = "", const QString & *url* = "")

Call this method to add a icon to the device.

6.15.4.4 void BrisaDevice::addService (BrisaService * *servdev*)

Overloads addService(). Create a *BrisaService* and add it to the device. We recommend using this method for better object orientation.

See also:

BrisaUpnp::BrisaService

6.15.4.5 void BrisaDevice::addService (const QString & *serviceType* = "", const QString & *serviceId* = "", const QString & *SCPDURL* = "", const QString & *controlURL* = "", const QString & *eventSubURL* = "")

Creates and adds a service to the device with the given information.

6.15.4.6 void BrisaDevice::clear ()

Clears the device information, including services, icons and embedded devices.

6.15.4.7 void BrisaDevice::doByeBye ()

Sends the ssdp:byebye messages for root device, embedded devices and services according to the UPnP 1.0 especification.

Referenced by stop().

6.15.4.8 void BrisaDevice::doNotify ()

Sends the ssdp:alive messages for root device, embedded devices and services according to the UPnP 1.0 especification.

Referenced by start().

6.15.4.9 QString BrisaDevice::getAttribute (xmlTags *key*) const

Attribute getter.

See also:

setAttribute()

Referenced by BrisaDevice(), operator=(), and BrisaUpnp::BrisaDeviceXMLHandler::xmlGenerator().

6.15.4.10 QList< BrisaDevice * > BrisaDevice::getEmbeddedDeviceList () const

Returns the embedded device list.

See also:

getIconList() , getServiceList()

Referenced by operator=().

6.15.4.11 QList< BrisaIcon > BrisaDevice::getIconList () const

Returns the icon list.

See also:

getEmbeddedDeviceList() , getServiceList()

Referenced by operator=().

6.15.4.12 BrisaService * BrisaDevice::getServiceById (const QString & *serviceId*)

Getter for BrisaService in the service list.

6.15.4.13 BrisaService * BrisaDevice::getServiceByType (const QString & *serviceType*)

Getter for BrisaService in the service list.

6.15.4.14 QList< BrisaService * > BrisaDevice::getServiceList () const

Returns the service list.

See also:

getEmbeddedDeviceList() , getIconList()

Referenced by operator=().

6.15.4.15 BrisaDevice & BrisaDevice::operator= (const BrisaDevice & *dev*)

Assigns dev to this BrisaDevice and returns a copy.

6.15.4.16 void BrisaDevice::respondMSearch (const QString & *st*, const QString & *senderIp*, quint16 *senderPort*) [slot]

Slot connected to the msearchRequestReceived() signal comming from the ssdp module. It parses the search type and responds accordingly.

See also:

respondMSearchAll()

Referenced by BrisaDevice().

6.15.4.17 void BrisaDevice::setAttribute (xmlTags *key*, const QString & *v*)

Attribute setter.

See also:

getAttribute()

6.15.4.18 void BrisaDevice::start ()

Call this method to join the network and start the device.

See also:

stop()

6.15.4.19 void BrisaDevice::stop ()

Stops the device and leaves the network.

See also:

start()

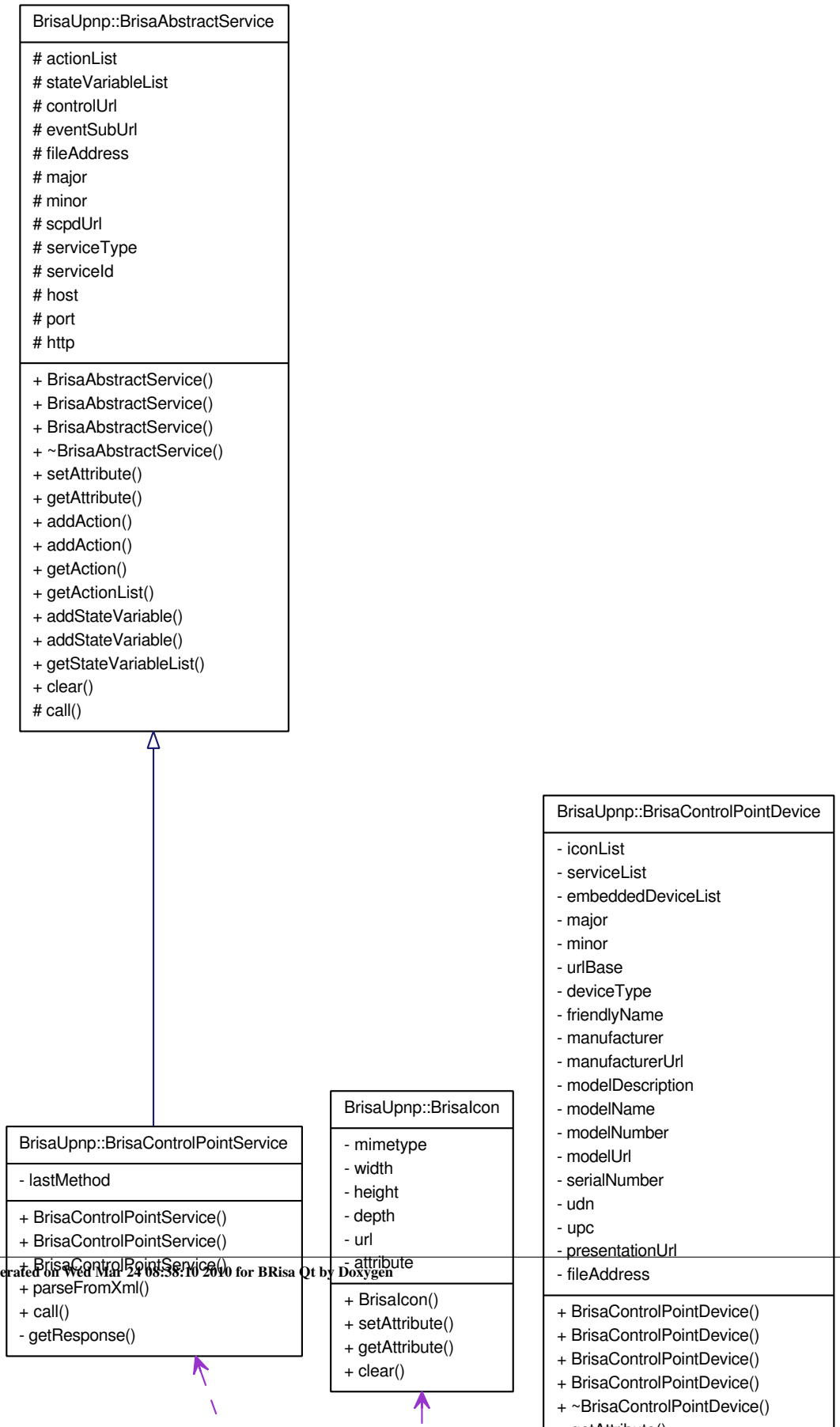
Referenced by ~BrisaDevice().

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

- src/upnp/device/brisadevice.h
- src/upnp/device/brisadevice.cpp

6.16 BrisaUpnp::BrisaDeviceParserContext Class Reference

`#include <brisadevicexmlhandlercp.h>`Collaboration diagram for BrisaUpnp::BrisaDeviceParserContext:



Public Member Functions

- BrisaDeviceParserContext (BrisaDeviceParserContext *parent=0, BrisaControlPointDevice *target=0)
- BrisaIcon * getIcon (void)
- BrisaControlPointDevice * getDevice (void)
- BrisaControlPointService * getService (void)
- void setIcon (BrisaIcon *icon)
- void setDevice (BrisaControlPointDevice *device)
- void setService (BrisaControlPointService *service)
- bool hasParent (void)
- BrisaDeviceParserContext * getParent (void)

Public Attributes

- int stateSkip
- SaxParserState state

6.16.1 Constructor & Destructor Documentation

6.16.1.1 BrisaUpnp::BrisaDeviceParserContext::BrisaDeviceParserContext (BrisaDeviceParserContext * *parent* = `0`, BrisaControlPointDevice * *target* = `0`) `[inline]`

6.16.2 Member Function Documentation

6.16.2.1 BrisaControlPointDevice* BrisaUpnp::BrisaDeviceParserContext::getDevice (void) `[inline]`

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::characters(), BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.2.2 BrisaIcon* BrisaUpnp::BrisaDeviceParserContext::getIcon (void) `[inline]`

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::characters(), BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.2.3 BrisaDeviceParserContext* BrisaUpnp::BrisaDeviceParserContext::getParent (void) `[inline]`

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

6.16.2.4 BrisaControlPointService* BrisaUpnp::BrisaDeviceParserContext::getService (void) `[inline]`

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::characters(), BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.2.5 bool BrisaUpnp::BrisaDeviceParserContext::hasParent (void) [inline]

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

6.16.2.6 void BrisaUpnp::BrisaDeviceParserContext::setDevice (BrisaControlPointDevice * *device*) [inline]

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.2.7 void BrisaUpnp::BrisaDeviceParserContext::setIcon (BrisaIcon * *icon*) [inline]

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.2.8 void BrisaUpnp::BrisaDeviceParserContext::setService (BrisaControlPointService * *service*) [inline]

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.3 Member Data Documentation

6.16.3.1 SaxParserState BrisaUpnp::BrisaDeviceParserContext::state

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::characters(), BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), BrisaUpnp::BrisaDeviceXMLHandlerCP::parseDevice(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

6.16.3.2 int BrisaUpnp::BrisaDeviceParserContext::stateSkip

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement(), BrisaUpnp::BrisaDeviceXMLHandlerCP::parseDevice(), and BrisaUpnp::BrisaDeviceXMLHandlerCP::startElement().

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

- src/upnp/controlpoint/brisadevicexmlhandlercp.h

6.17 BrisaUpnp::BrisaDeviceXMLHandler Class Reference

`#include <brisadevicexmlhandler.h>`

Public Member Functions

- void xmlGenerator (BrisaDevice *device, QFile *file)

6.17.1 Member Function Documentation

6.17.1.1 void BrisaDeviceXMLHandler::xmlGenerator (BrisaDevice * *device*, QFile * *file*)

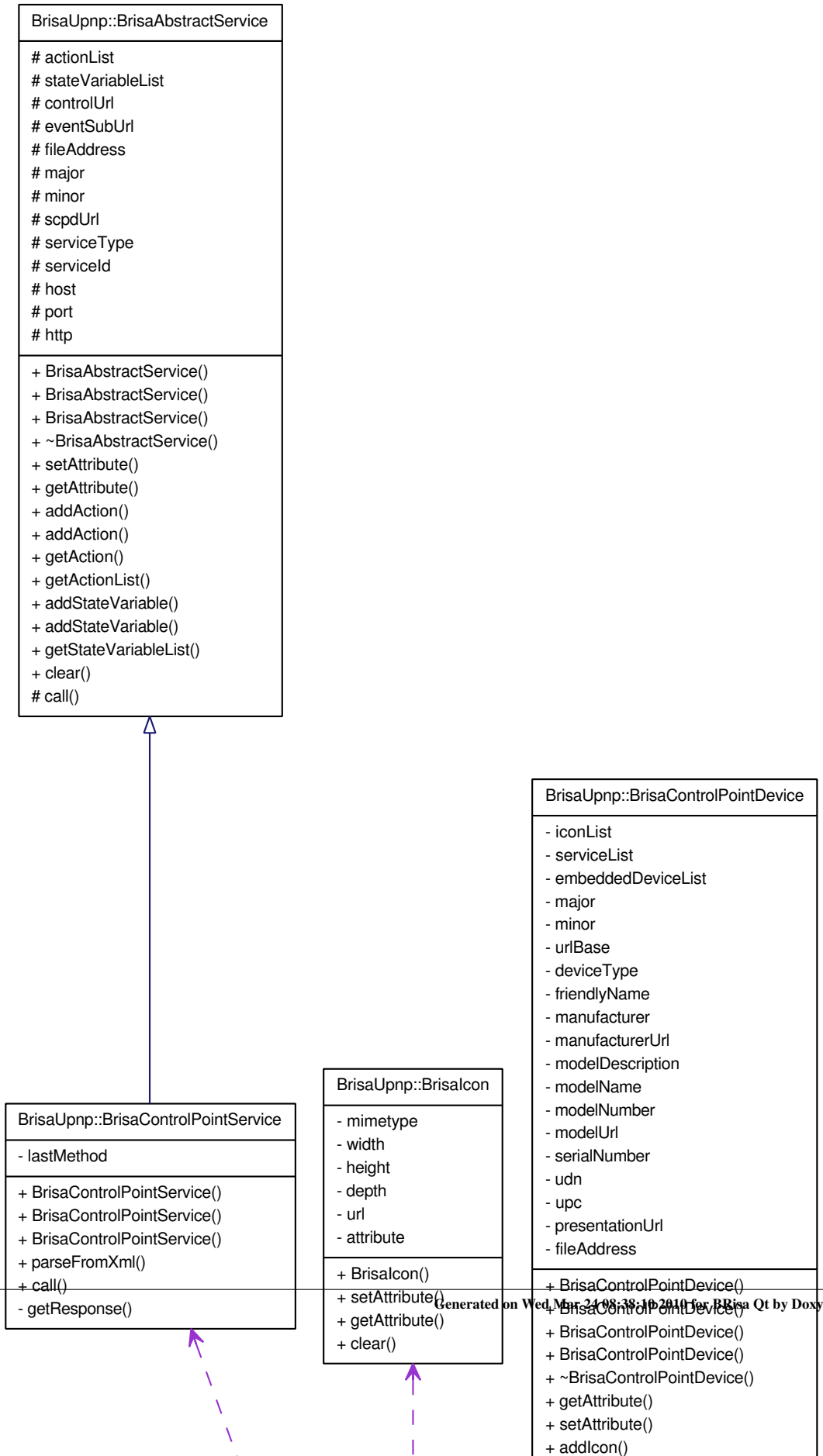
The documentation for this class was generated from the following files:

- src/upnp/device/brisadevicexmlhandler.h
- src/upnp/device/brisadevicexmlhandler.cpp

6.18 BrisaUpnp::BrisaDeviceXMLHandlerCP Class Reference

BrisaDeviceXMLHandlerCP creates a device from a xml description file, with all it's attributes, it let's it ready to be used.

`#include <BrisaUpnp/BrisaDeviceXMLHandlerCP>`Collaboration diagram for BrisaUpnp::BrisaDeviceXMLHandlerCP:



Public Member Functions

- void parseDevice (BrisaControlPointDevice *device, QTemporaryFile *tmp)

  Method that initializes device attributes from tmp file.

Protected Member Functions

- bool startElement (const QString &namespaceURI, const QString &localName, const QString &qName, const QXmlAttributes &attributes)

  Method inherited from QXmlDefaultHandler it's called in every beginning tag, depending on tag the context state passes to a different state so that it can process separately.

- bool endElement (const QString &namespaceURI, const QString &localName, const QString &qName)

  Method that is called in the tag end, this method add the attribute to the device so that attributes can be initialized in device.

- bool characters (const QString &str)

  Method that set properly the attribute value to value that it is the content between the beginning tag and the finish one.

6.18.1 Detailed Description

BrisaDeviceXMLHandlerCP creates a device from a xml description file, with all it's attributes, it let's it ready to be used.

6.18.2 Member Function Documentation

6.18.2.1 bool BrisaDeviceXMLHandlerCP::characters (const QString & *str*) [protected]

Method that set properly the attribute value to value that it is the content between the beginning tag and the finish one. It's important to say that in each state it performs a different action.

6.18.2.2 bool BrisaDeviceXMLHandlerCP::endElement (const QString & *namespaceURI*, const QString & *localName*, const QString & *qName*) [protected]

Method that is called in the tag end, this method add the attribute to the device so that attributes can be initialized in device. It's important to say that in each state it performs a different action.

6.18.2.3 void BrisaDeviceXMLHandlerCP::parseDevice (BrisaControlPointDevice * *device*, QTemporaryFile * *tmp*)

Method that initializes *device* attributes from *tmp* file.

6.18.2.4 bool BrisaDeviceXMLHandlerCP::startElement (const QString & *namespaceURI*, const QString & *localName*, const QString & *qName*, const QXmlAttributes & *attributes*) [protected]

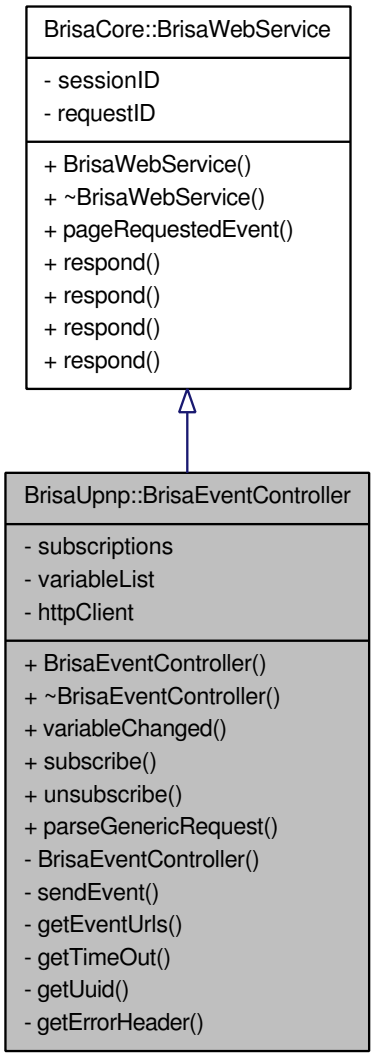
Method inherited from QXmlDefaultHandler it's called in every beginning tag, depending on tag the context state passes to a different state so that it can process separately. It's important to say that in each state it performs a different action.

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

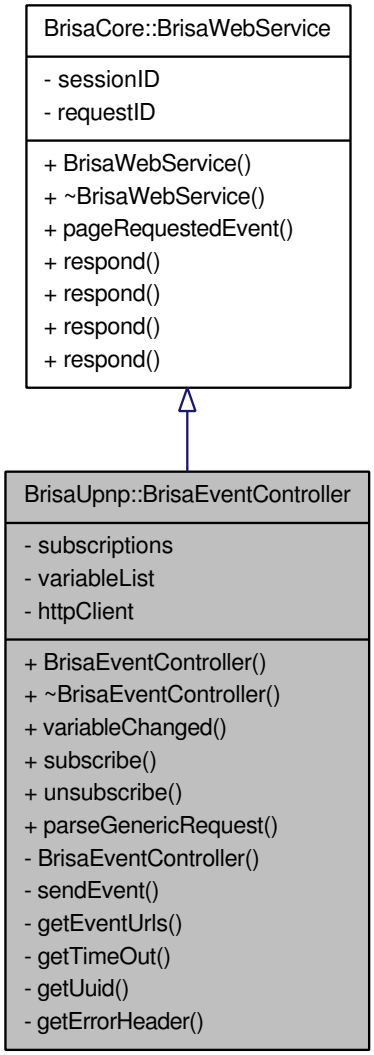
- src/upnp/controlpoint/brisadevicexmlhandlercp.h
- src/upnp/controlpoint/brisadevicexmlhandlercp.cpp

6.19 BrisaUpnp::BrisaEventController Class Reference

`#include <brisaeventcontroller.h>`Inheritance diagram for BrisaUpnp::BrisaEventController:



Collaboration diagram for BrisaUpnp::BrisaEventController:



Public Slots

- void variableChanged (BrisaStateVariable *variable)

  Slot that shall be called when some service's state variable change.

- void subscribe (const QMultiHash< QString, QString > &subscriberInfo, int sessionId, int requestId)

  Creates a subscription for the given subscriberInfo, sessionId and requestId.

- void unsubscribe (const QMultiHash< QString, QString > &subscriberInfo, int sessionId, int requestId)

  Removes the subscription for the given subscriberInfo, sessionId and requestId.

- void parseGenericRequest (const QString &method, const QMultiHash< QString, QString > &headers, const QByteArray &requestContent, int sessionId, int requestId)

Parses a generic request to web service and calls the local related methods as necessary.

Public Member Functions

- BrisaEventController (QxtAbstractWebSessionManager ∗sessionManager, QList< BrisaStateVariable ∗ > ∗stateVariableList, QObject ∗parent=0)

  Constructs a service's event controller with the given sessionManager, service's stateVariableList and parent.

- ∼BrisaEventController ()

  Destructor.

6.19.1 Constructor & Destructor Documentation

6.19.1.1 BrisaEventController::BrisaEventController (QxtAbstractWebSessionManager ∗ *sessionManager*, QList< BrisaStateVariable ∗ > ∗ *stateVariableList*, QObject ∗ *parent* = 0)

Constructs a service's event controller with the given *sessionManager*, service's *stateVariableList* and *parent*.

6.19.1.2 BrisaEventController::∼BrisaEventController ()

Destructor.

6.19.2 Member Function Documentation

6.19.2.1 void BrisaEventController::parseGenericRequest (const QString & *method*, const QMultiHash< QString, QString > & *headers*, const QByteArray & *requestContent*, int *sessionId*, int *requestId*) [slot]

Parses a generic request to web service and calls the local related methods as necessary.

Referenced by BrisaEventController().

6.19.2.2 void BrisaEventController::subscribe (const QMultiHash< QString, QString > & *subscriberInfo*, int *sessionId*, int *requestId*) [slot]

Creates a subscription for the given *subscriberInfo*, *sessionId* and *requestId*.

Referenced by parseGenericRequest().

6.19.2.3 void BrisaEventController::unsubscribe (const QMultiHash< QString, QString > & *subscriberInfo*, int *sessionId*, int *requestId*) [slot]

Removes the subscription for the given *subscriberInfo*, *sessionId* and *requestId*.

Referenced by parseGenericRequest().

6.19.2.4 void BrisaEventController::variableChanged (BrisaStateVariable * *variable*) [slot]

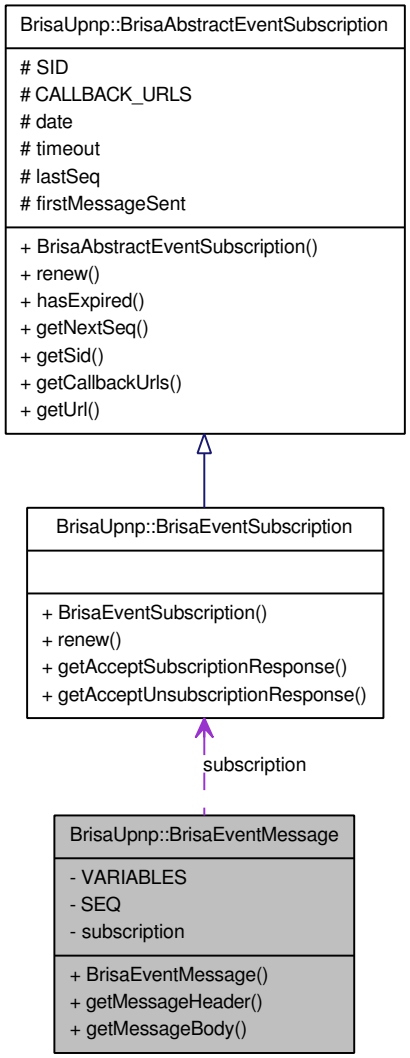
Slot that shall be called when some service's state *variable* change.

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

- src/upnp/device/brisaeventcontroller.h
- src/upnp/device/brisaeventcontroller.cpp

6.20 BrisaUpnp::BrisaEventMessage Class Reference

`#include <brisaeventmessage.h>`Collaboration diagram for BrisaUpnp::BrisaEventMessage:



Public Member Functions

- BrisaEventMessage (BrisaEventSubscription &subscription, const QList< BrisaStateVariable * > *variables, QObject *parent=0)

  Contructs a new event message to the given subscription and related to the given variables, with the given parent object.

- QHttpRequestHeader getMessageHeader () const

  Returns this event message's http header.

- QByteArray getMessageBody () const

  Returns this event message's http body.

6.20.1 Constructor & Destructor Documentation

6.20.1.1 BrisaEventMessage::BrisaEventMessage (BrisaEventSubscription & *subscription*, const QList< BrisaStateVariable * > * *variables*, QObject * *parent* = 0)

Contructs a new event message to the given *subscription* and related to the given *variables*, with the given *parent* object.

6.20.2 Member Function Documentation

6.20.2.1 QByteArray BrisaEventMessage::getMessageBody () const

Returns this event message's http body.

Referenced by getMessageHeader().

6.20.2.2 QHttpRequestHeader BrisaEventMessage::getMessageHeader () const

Returns this event message's http header.

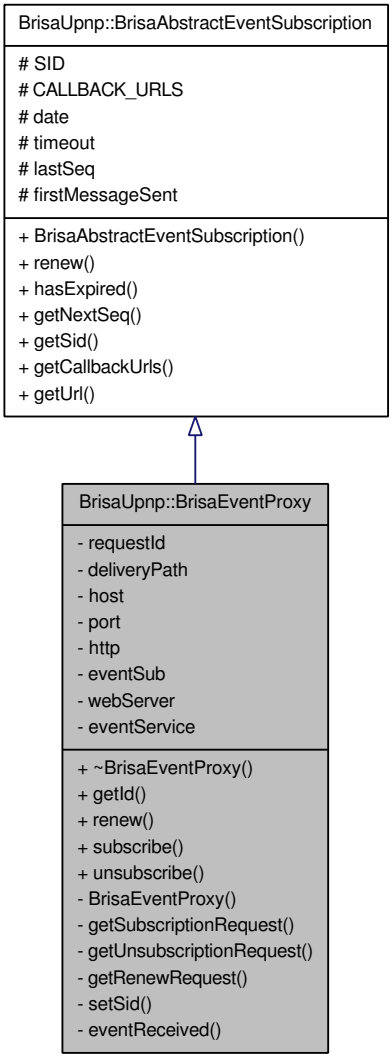
The documentation for this class was generated from the following files:

- src/upnp/device/brisaeventmessage.h
- src/upnp/device/brisaeventmessage.cpp

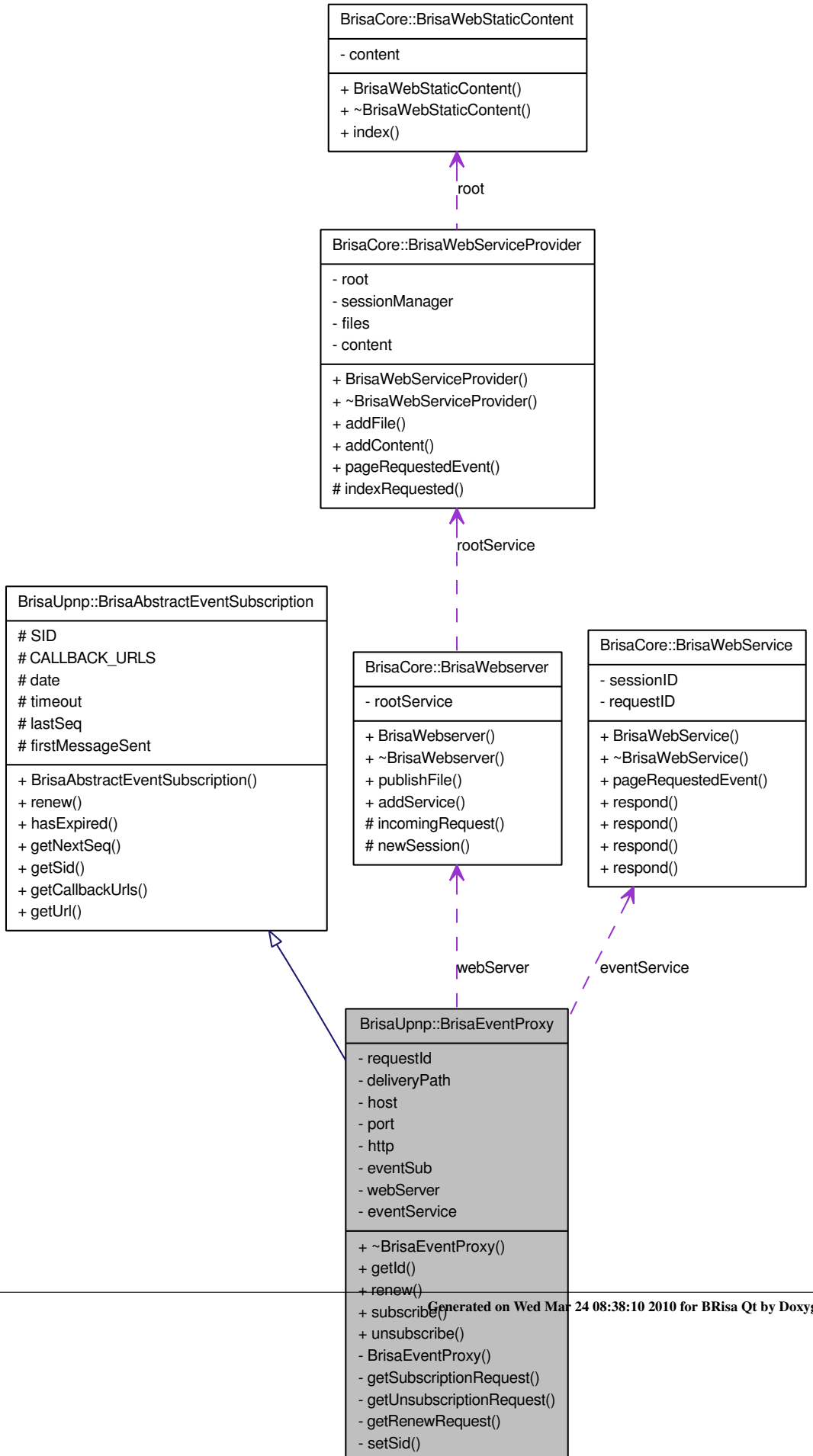
6.21 BrisaUpnp::BrisaEventProxy Class Reference

Class that implements the event part in control point side in Brisa Qt, this class makes the operations of subscribe, renew subscription and unsubscribe.

`#include <BrisaUpnp/BrisaEventProxy>`Inheritance diagram for BrisaUpnp::BrisaEventProxy:



Collaboration diagram for BrisaUpnp::BrisaEventProxy:



Signals

- void eventNotification (BrisaEventProxy *subscription, QMap< QString, QString > eventingVariables)

Public Member Functions

- ~BrisaEventProxy ()

  Destructor.

- int getId ()

  Gets the request id.

- void renew (const int &newTimeout=-1)

  Renew the subscribe in a event for the newTimeout passed.

- void subscribe (const int timeout=-1)

  Subscribe for the events from a service subscriptions will last the timeout passed.

- void unsubscribe ()

  Unsubscribe the events from a service, using this the user won't receive more event responses.

Friends

- class BrisaControlPoint

6.21.1 Detailed Description

Class that implements the event part in control point side in Brisa Qt, this class makes the operations of subscribe, renew subscription and unsubscribe.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 BrisaEventProxy::~BrisaEventProxy ()

Destructor.

6.21.3 Member Function Documentation

6.21.3.1 void BrisaUpnp::BrisaEventProxy::eventNotification (BrisaEventProxy * *subscription*, QMap< QString, QString > *eventingVariables*) [signal]

6.21.3.2 int BrisaEventProxy::getId ()

Gets the request id.

6.21.3.3 void BrisaEventProxy::renew (const int & *newTimeout* = -1) [virtual]

Renew the subscribe in a event for the *newTimeout* passed.

Implements BrisaUpnp::BrisaAbstractEventSubscription.

6.21.3.4 void BrisaEventProxy::subscribe (const int *timeout* = -1)

Subscribe for the events from a service subscriptions will last the *timeout* passed.

6.21.3.5 void BrisaEventProxy::unsubscribe (void)

Unsubscribe the events from a service, using this the user won't receive more event responses.

6.21.4 Friends And Related Function Documentation

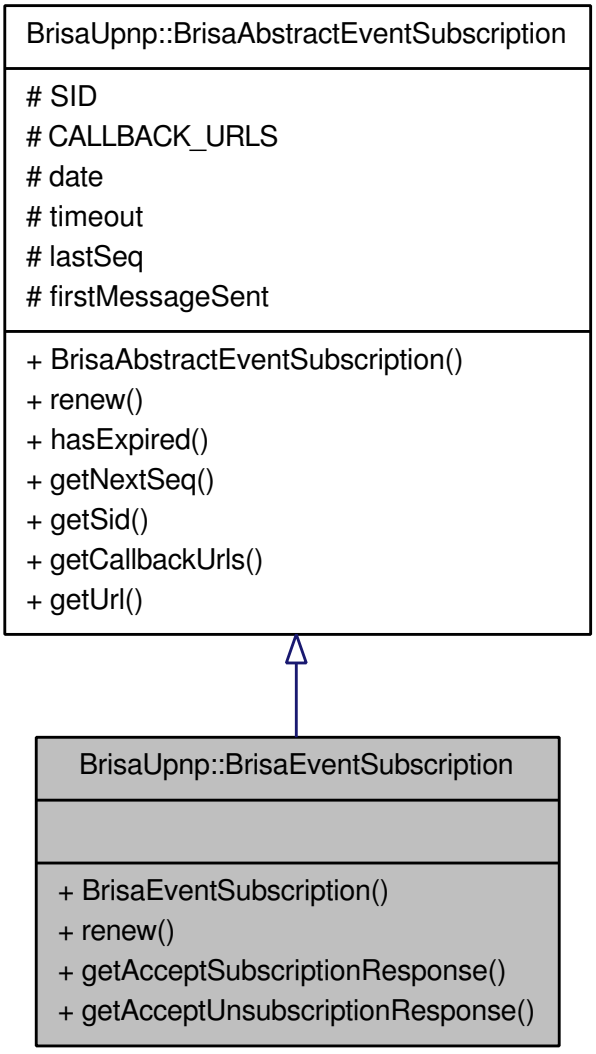
6.21.4.1 friend class BrisaControlPoint [friend]

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

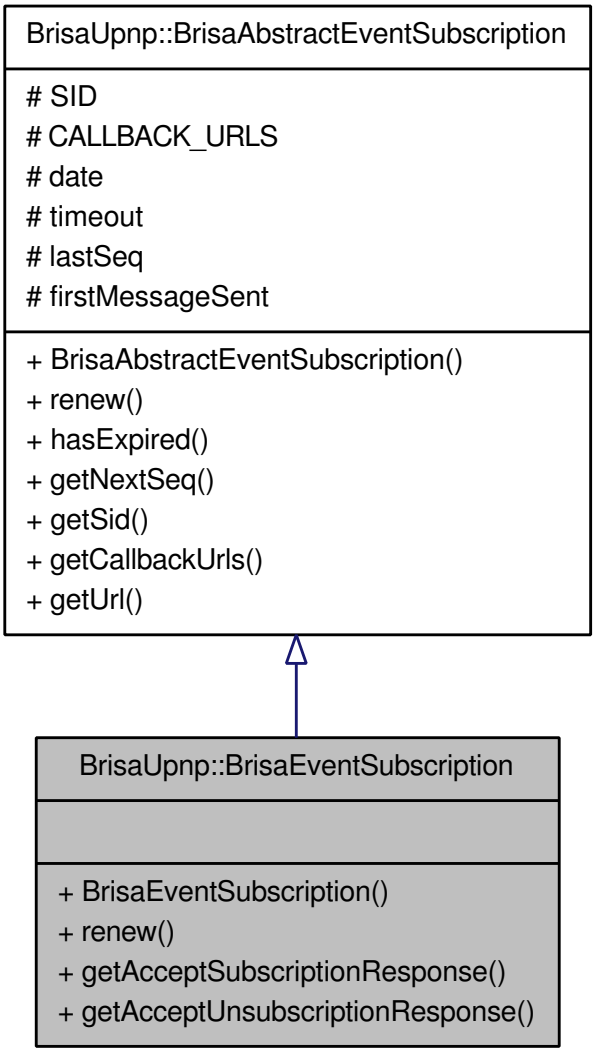
- src/upnp/controlpoint/brisaeventproxy.h
- src/upnp/controlpoint/brisaeventproxy.cpp

6.22 BrisaUpnp::BrisaEventSubscription Class Reference

`#include <brisaeventsubscription.h>`Inheritance diagram for BrisaUpnp::BrisaEventSubscription:



Collaboration diagram for BrisaUpnp::BrisaEventSubscription:



Public Member Functions

- BrisaEventSubscription (const QString &sid, const QStringList &callbackUrls, const int &timeout=-1, QObject *parent=0)
- void renew (const int &newTimeout=-1)

  Renews the subscription for the given newTimeout.

- QHttpResponseHeader getAcceptSubscriptionResponse () const
- QHttpResponseHeader getAcceptUnsubscriptionResponse () const

6.22.1 Constructor & Destructor Documentation

6.22.1.1 BrisaUpnp::BrisaEventSubscription::BrisaEventSubscription (const QString & *sid*, const QStringList & *callbackUrls*, const int & *timeout* = `-1`, QObject * *parent* = `0`) `[inline]`

6.22.2 Member Function Documentation

6.22.2.1 QHttpResponseHeader BrisaEventSubscription::getAcceptSubscriptionResponse () const

Referenced by BrisaUpnp::BrisaEventController::subscribe().

6.22.2.2 QHttpResponseHeader BrisaEventSubscription::getAcceptUnsubscriptionResponse () const

6.22.2.3 void BrisaEventSubscription::renew (const int & *newTimeout* = `-1`) `[virtual]`

Renews the subscription for the given *newTimeout*.

Implements BrisaUpnp::BrisaAbstractEventSubscription.

Referenced by BrisaUpnp::BrisaEventController::subscribe().

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

- src/upnp/device/brisaeventsubscription.h
- src/upnp/device/brisaeventsubscription.cpp

6.23 BrisaUpnp::BrisaIcon Class Reference

`#include <brisaicon.h>`

Public Types

- enum xmlIconTags {
  Mimetype, Width, Height, Depth,
  Url }

Public Member Functions

- BrisaIcon (QString mimetype="", QString width="", QString height="", QString depth="", QString url="")
- void setAttribute (xmlIconTags key, QString v)
- QString getAttribute (xmlIconTags key)
- void clear ()

6.23.1 Member Enumeration Documentation

6.23.1.1 enum BrisaUpnp::BrisaIcon::xmlIconTags

Enumerator:

Mimetype
Width
Height
Depth
Url

6.23.2 Constructor & Destructor Documentation

6.23.2.1 BrisaIcon::BrisaIcon (QString *mimetype* = "", QString *width* = "", QString *height* = "", QString *depth* = "", QString *url* = "")

6.23.3 Member Function Documentation

6.23.3.1 void BrisaIcon::clear ()

6.23.3.2 QString BrisaIcon::getAttribute (xmlIconTags *key*)

6.23.3.3 void BrisaIcon::setAttribute (xmlIconTags *key*, QString *v*)

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::characters().

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

- src/upnp/brisaicon.h
- src/upnp/brisaicon.cpp

6.24 BrisaUpnp::BrisaMSearchClientCP Class Reference

SSDP MSearch implementation for UPnP control points.

`#include <BrisaUpnp/BrisaMSearchClientCP>`

Public Slots

- void discover ()

Signals

- void msearchResponseReceived (const QString &usn, const QString &location, const QString &st, const QString &ext, const QString &server, const QString &cacheControl)

Public Member Functions

- BrisaMSearchClientCP (QObject *parent=0, const QString &type=DEFAULT_SEARCH_TYPE, int mx=5)
- virtual ~BrisaMSearchClientCP ()
- void doubleDiscover ()
- bool isRunning () const
- void start (int interval=DEFAULT_SEARCH_TIME)
- void stop ()

6.24.1 Detailed Description

SSDP MSearch implementation for UPnP control points. Create a new BrisaMSearchClientCP with the desired service type and mx values, and call start() to begin sending discovery messages to possible devices in the multicast group. When a device responds to a msearch request, *msearchResponseReceived()* signal is emmited.

6.24.2 Constructor & Destructor Documentation

6.24.2.1 BrisaMSearchClientCP::BrisaMSearchClientCP (QObject * *parent* = `0`, const QString & *type* = `DEFAULT_SEARCH_TYPE`, int *mx* = `5`)

6.24.2.2 BrisaMSearchClientCP::~BrisaMSearchClientCP () `[virtual]`

6.24.3 Member Function Documentation

6.24.3.1 void BrisaMSearchClientCP::discover () `[slot]`

Referenced by BrisaMSearchClientCP(), BrisaUpnp::BrisaControlPoint::discover(), and doubleDiscover().

6.24.3.2 void BrisaMSearchClientCP::doubleDiscover ()

6.24.3.3 bool BrisaMSearchClientCP::isRunning () const

Referenced by start(), stop(), and ~BrisaMSearchClientCP().

6.24.3.4 void BrisaUpnp::BrisaMSearchClientCP::msearchResponseReceived (const QString & *usn*, const QString & *location*, const QString & *st*, const QString & *ext*, const QString & *server*, const QString & *cacheControl*) [signal]

6.24.3.5 void BrisaMSearchClientCP::start (int *interval* = DEFAULT_SEARCH_TIME)

Referenced by BrisaUpnp::BrisaControlPoint::start().

6.24.3.6 void BrisaMSearchClientCP::stop ()

Referenced by BrisaUpnp::BrisaControlPoint::stop(), and ~BrisaMSearchClientCP().

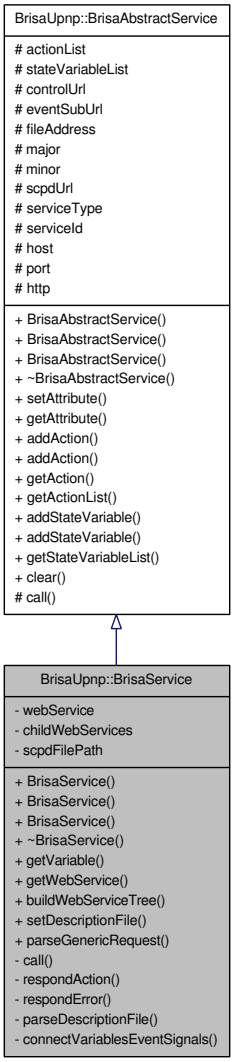
The documentation for this class was generated from the following files:

- src/upnp/controlpoint/brisamsearchclientcp.h
- src/upnp/controlpoint/brisamsearchclientcp.cpp

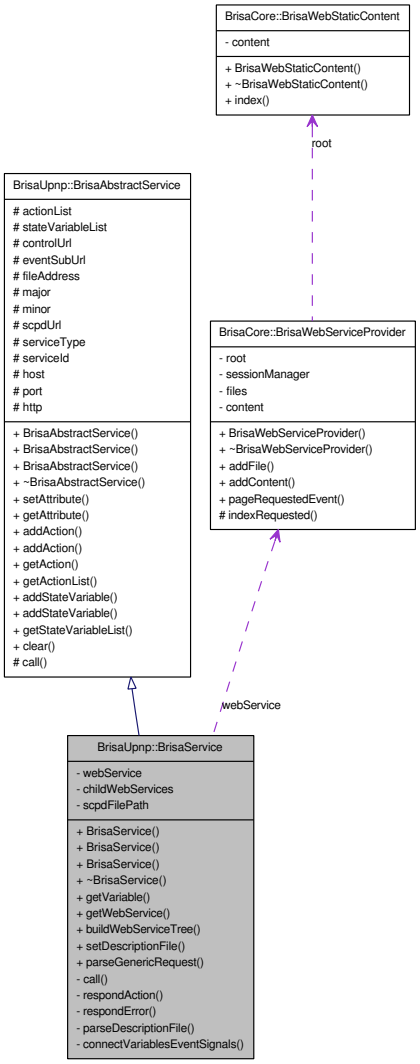
6.25 BrisaUpnp::BrisaService Class Reference

UPnP service abstraction.

`#include <BrisaUpnp/BrisaService>`Inheritance diagram for BrisaUpnp::BrisaService:



Collaboration diagram for BrisaUpnp::BrisaService:



Public Slots

- void parseGenericRequest (const QString &method, const QMultiHash< QString, QString > &headers, const QByteArray &requestContent, int sessionId, int requestId)

  Parses the genericRequestReceived() signal coming from the webservice.

Public Member Functions

- BrisaService (QObject *parent=0)

  Constructs a BrisaService with the given parent.

- BrisaService (const QString &serviceType, const QString &serviceId="", const QString &scpdUrl="", const QString &controlUrl="", const QString &eventSubUrl="", const QString &host="", QObject *parent=0)

Constructs a BrisaService with the given service information.

- BrisaService (BrisaService &service)

  Copy constructor.

- ~BrisaService ()

  Destructor.

- BrisaStateVariable * getVariable (const QString &variableName)

  Returns the requested BrisaStateVariable, if the variable doesn't exists it return 0.

- BrisaWebServiceProvider * getWebService ()

  Returns the web service.

- void buildWebServiceTree (QxtAbstractWebSessionManager *sessionManager)

  This method creates all the webservice related stuff.

- void setDescriptionFile (const QString &scpdFilePath)

  Sets the service file path.

6.25.1 Detailed Description

UPnP service abstraction. BrisaService provides a convinient way to create UPnP services. BrisaService itself contains a webservice, so integration with the webserver is simple. You can simply create your service actions with BrisaAction, then create a new BrisaService with the proper information and simply call *addAction()* with the previously created actions. The next step is to add your service to the device.

6.25.2 Constructor & Destructor Documentation

6.25.2.1 BrisaService::BrisaService (QObject * *parent* = 0)

Constructs a BrisaService with the given parent.

6.25.2.2 BrisaService::BrisaService (const QString & *serviceType*, const QString & *serviceId* = "", const QString & *scpdUrl* = "", const QString & *controlUrl* = "", const QString & *eventSubUrl* = "", const QString & *host* = "", QObject * *parent* = 0)

Constructs a BrisaService with the given service information.

6.25.2.3 BrisaService::BrisaService (BrisaService & *service*)

Copy constructor.

6.25.2.4 BrisaService::~BrisaService ()

Destructor.

6.25.3 Member Function Documentation

6.25.3.1 void BrisaService::buildWebServiceTree (QxtAbstractWebSessionManager * *sessionManager*)

This method creates all the webservice related stuff. It creates a URL for the control path, another url for the event path, and publishs the service description XML file.

6.25.3.2 BrisaStateVariable * BrisaService::getVariable (const QString & *variableName*)

Returns the requested BrisaStateVariable, if the variable doesn't exists it return 0.

Referenced by BrisaUpnp::BrisaAction::getStateVariable().

6.25.3.3 BrisaWebServiceProvider * BrisaService::getWebService ()

Returns the web service.

6.25.3.4 void BrisaService::parseGenericRequest (const QString & *method*, const QMultiHash< QString, QString > & *headers*, const QByteArray & *requestContent*, int *sessionId*, int *requestId*) `[slot]`

Parses the genericRequestReceived() signal coming from the webservice.

Referenced by buildWebServiceTree().

6.25.3.5 void BrisaService::setDescriptionFile (const QString & *scpdFilePath*)

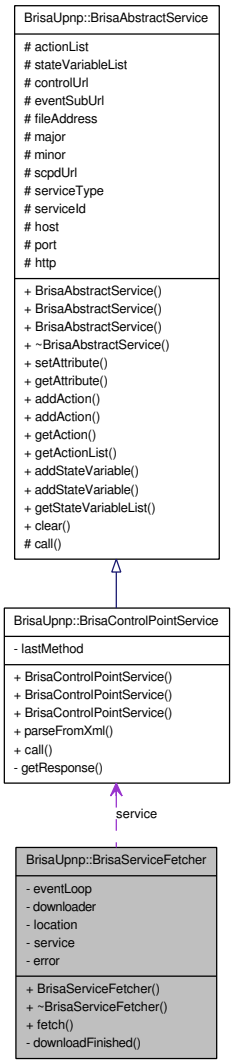
Sets the service file path.

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

- src/upnp/device/brisaservice.h
- src/upnp/device/brisaservice.cpp

6.26 BrisaUpnp::BrisaServiceFetcher Class Reference

`#include <brisadevicexmlhandlercp.h>`Collaboration diagram for BrisaUpnp::BrisaServiceFetcher:



Signals

- void fetchFinished (void)

Public Member Functions

- BrisaServiceFetcher (BrisaControlPointService *service, QString location, QObject *parent=0)
- ~BrisaServiceFetcher ()
- bool fetch (void)

6.26.1 Constructor & Destructor Documentation

6.26.1.1 BrisaUpnp::BrisaServiceFetcher::BrisaServiceFetcher (BrisaControlPointService * *service*, QString *location*, QObject * *parent* = 0) [inline]

6.26.1.2 BrisaUpnp::BrisaServiceFetcher::~BrisaServiceFetcher () [inline]

6.26.2 Member Function Documentation

6.26.2.1 bool BrisaUpnp::BrisaServiceFetcher::fetch (void) [inline]

Referenced by BrisaUpnp::BrisaDeviceXMLHandlerCP::endElement().

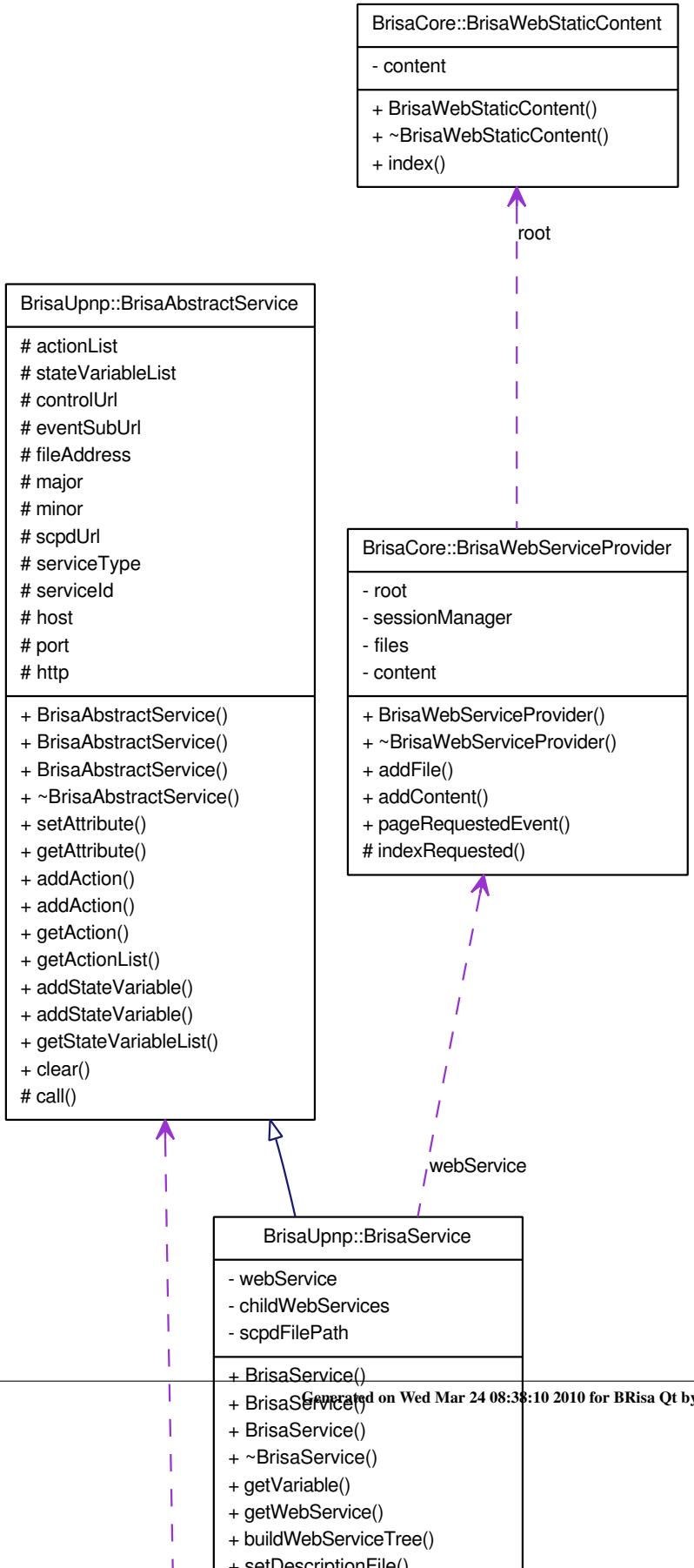
6.26.2.2 void BrisaUpnp::BrisaServiceFetcher::fetchFinished (void) [signal]

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

- src/upnp/controlpoint/brisadevicexmlhandlercp.h

6.27 BrisaUpnp::BrisaServiceParserContext Class Reference

`#include <brisaservicexmlhandler.h>`Collaboration diagram for BrisaUpnp::BrisaServiceParserContext:



Public Member Functions

- BrisaServiceParserContext (BrisaServiceParserContext *parent=0, BrisaAbstractService *target=0)
- BrisaAction * getAction (void)
- BrisaAbstractService * getService (void)
- BrisaStateVariable * getStateVariable (void)
- BrisaArgument * getArgument (void)
- void setAction (BrisaAction *action)
- void setService (BrisaAbstractService *service)
- void setStateVariable (BrisaStateVariable *stateVariable)
- void setArgument (BrisaArgument *argument)
- bool hasParent (void)
- BrisaServiceParserContext * getParent (void)

Public Attributes

- int stateSkip
- saxParserState state

6.27.1 Constructor & Destructor Documentation

6.27.1.1 BrisaUpnp::BrisaServiceParserContext::BrisaServiceParserContext (BrisaServiceParserContext * *parent* = `0`, BrisaAbstractService * *target* = `0`) `[inline]`

6.27.2 Member Function Documentation

6.27.2.1 BrisaAction* BrisaUpnp::BrisaServiceParserContext::getAction (void) `[inline]`

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters(), BrisaUpnp::BrisaServiceXMLHandler::endElement(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.2.2 BrisaArgument* BrisaUpnp::BrisaServiceParserContext::getArgument (void) `[inline]`

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters(), BrisaUpnp::BrisaServiceXMLHandler::endElement(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.2.3 BrisaServiceParserContext* BrisaUpnp::BrisaServiceParserContext::getParent (void) `[inline]`

6.27.2.4 BrisaAbstractService* BrisaUpnp::BrisaServiceParserContext::getService (void) `[inline]`

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters(), and BrisaUpnp::BrisaServiceXMLHandler::endElement().

6.27.2.5 BrisaStateVariable* BrisaUpnp::BrisaServiceParserContext::getStateVariable (void) [inline]

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters(), BrisaUpnp::BrisaServiceXMLHandler::endElement(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.2.6 bool BrisaUpnp::BrisaServiceParserContext::hasParent (void) [inline]

6.27.2.7 void BrisaUpnp::BrisaServiceParserContext::setAction (BrisaAction * *action*) [inline]

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.2.8 void BrisaUpnp::BrisaServiceParserContext::setArgument (BrisaArgument * *argument*) [inline]

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.2.9 void BrisaUpnp::BrisaServiceParserContext::setService (BrisaAbstractService * *service*) [inline]

6.27.2.10 void BrisaUpnp::BrisaServiceParserContext::setStateVariable (BrisaStateVariable * *stateVariable*) [inline]

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.3 Member Data Documentation

6.27.3.1 saxParserState BrisaUpnp::BrisaServiceParserContext::state

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters(), BrisaUpnp::BrisaServiceXMLHandler::endElement(), BrisaUpnp::BrisaServiceXMLHandler::parseService(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

6.27.3.2 int BrisaUpnp::BrisaServiceParserContext::stateSkip

Referenced by BrisaUpnp::BrisaServiceXMLHandler::endElement(), BrisaUpnp::BrisaServiceXMLHandler::parseService(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

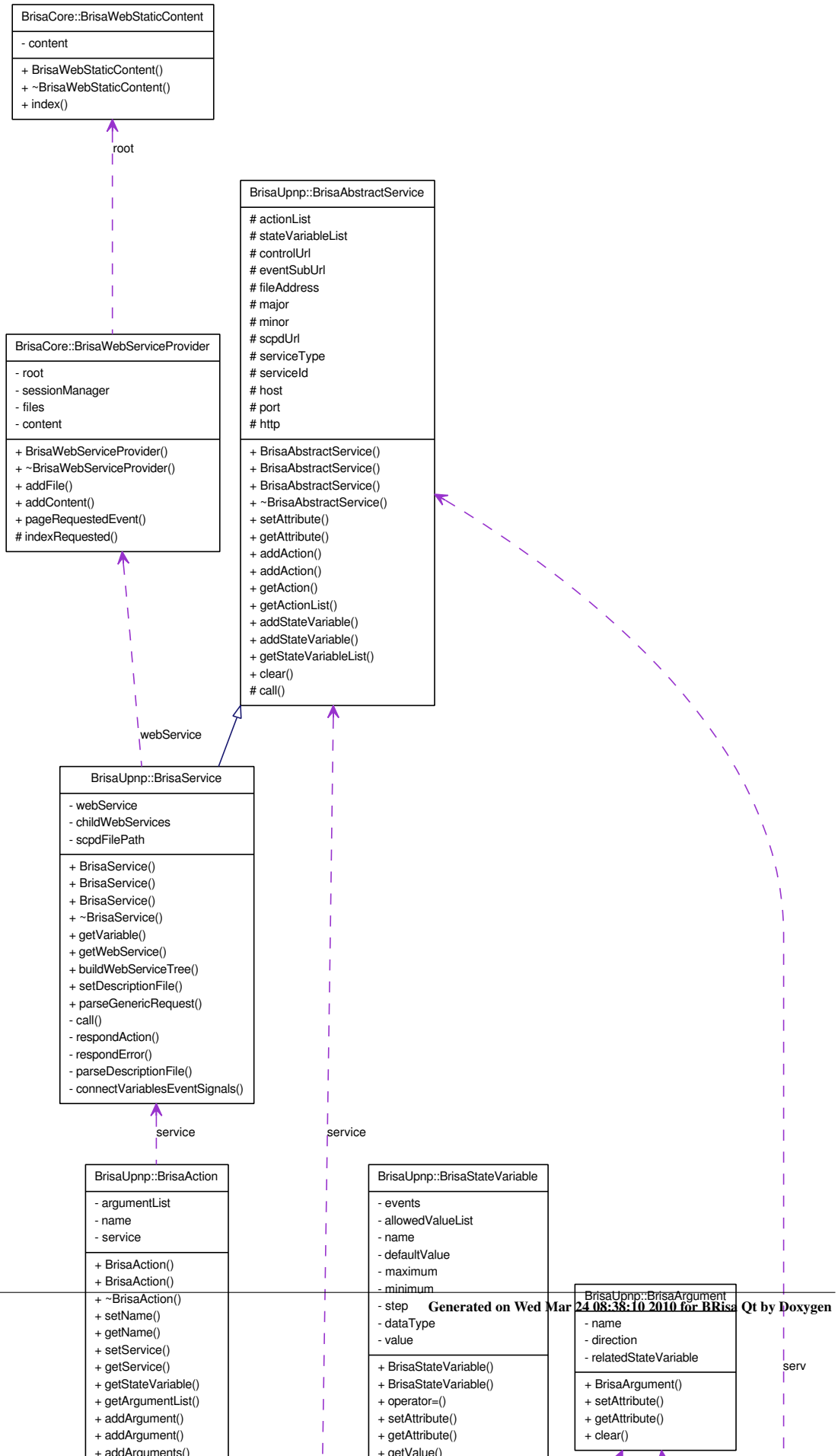
The documentation for this class was generated from the following file:

- src/upnp/brisaservicexmlhandler.h

6.28 BrisaUpnp::BrisaServiceXMLHandler Class Reference

`#include <brisaservicexmlhandler.h>`Collaboration diagram for

BrisaUpnp::BrisaServiceXMLHandler:



Public Member Functions

- void parseService (BrisaAbstractService *service, QIODevice *scpd)

Protected Member Functions

- bool startElement (const QString &namespaceURI, const QString &localName, const QString &qName, const QXmlAttributes &attributes)
- bool endElement (const QString &namespaceURI, const QString &localName, const QString &qName)
- bool characters (const QString &str)

6.28.1 Member Function Documentation

6.28.1.1 bool BrisaServiceXMLHandler::characters (const QString & *str*) [protected]

6.28.1.2 bool BrisaServiceXMLHandler::endElement (const QString & *namespaceURI*, const QString & *localName*, const QString & *qName*) [protected]

6.28.1.3 void BrisaServiceXMLHandler::parseService (BrisaAbstractService * *service*, QIODevice * *scpd*)

Referenced by BrisaUpnp::BrisaControlPointService::parseFromXml().

6.28.1.4 bool BrisaServiceXMLHandler::startElement (const QString & *namespaceURI*, const QString & *localName*, const QString & *qName*, const QXmlAttributes & *attributes*) [protected]

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

- src/upnp/brisaservicexmlhandler.h
- src/upnp/brisaservicexmlhandler.cpp

6.29 BrisaUpnp::BrisaSSDPClient Class Reference

SSDP stack implementantion for UPnP control points.

`#include <BrisaUpnp/BrisaSSDPClient>`

Public Slots

- void start ()

  Connects to the MultiCast group and starts the client.

- void stop ()

  Stops the client.

- bool isRunning () const

  Returns true if the client is running.

Signals

- void newDeviceEvent (const QString &usn, const QString &location, const QString &st, const QString &ext, const QString &server, const QString &cacheControl)

  This signal is emitted when the client receives a "ssdp:alive" message from a device joining the network.

- void removedDeviceEvent (const QString &usn)

  This signal is emitted when the client receives a "ssdp:byebye" message from a device leaving the network.

Public Member Functions

- BrisaSSDPClient (QObject *parent=0)

  Constructs a BrisaSSCPClient with the given parent.

- ~BrisaSSDPClient ()

  Destroys the client.

6.29.1 Detailed Description

SSDP stack implementantion for UPnP control points. Create a new BrisaSSCPClient and call "start()" to connect to the multicast group and start listening to ssdp notification messages.

When BrisaSSDPClient receives a notification message it emits *"newDeviceEvent()"* in case of "ssdp:alive" and *"removedDeviceEvent"* in case of "ssdp:byebye". Other ssdp messages will be ignored.

6.29.2 Constructor & Destructor Documentation

6.29.2.1 BrisaSSDPClient::BrisaSSDPClient (QObject * *parent* = 0)

Constructs a BrisaSSCPClient with the given parent.

6.29.2.2 BrisaSSDPClient::~BrisaSSDPClient ()

Destroys the client. Stops the client if it's running.

6.29.3 Member Function Documentation

6.29.3.1 bool BrisaSSDPClient::isRunning () const [slot]

Returns true if the client is running.

Referenced by start(), stop(), and ~BrisaSSDPClient().

6.29.3.2 void BrisaSSDPClient::newDeviceEvent (const QString & *usn*, const QString & *location*, const QString & *st*, const QString & *ext*, const QString & *server*, const QString & *cacheControl*) [signal]

This signal is emitted when the client receives a "ssdp:alive" message from a device joining the network.

See also:

removedDeviceEvent()

6.29.3.3 void BrisaSSDPClient::removedDeviceEvent (const QString & *usn*) [signal]

This signal is emitted when the client receives a "ssdp:byebye" message from a device leaving the network.

See also:

newDeviceEvent()

6.29.3.4 void BrisaSSDPClient::start () [slot]

Connects to the MultiCast group and starts the client.

See also:

isRunning(), stop()

Referenced by BrisaUpnp::BrisaControlPoint::start().

6.29.3.5 void BrisaSSDPClient::stop () [slot]

Stops the client.

See also:

isRunning(), start()

Referenced by BrisaUpnp::BrisaControlPoint::stop(), and ~BrisaSSDPClient().

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

- src/upnp/ssdp/brisassdpclient.h
- src/upnp/ssdp/brisassdpclient.cpp

6.30 BrisaUpnp::BrisaSSDPServer Class Reference

SSDP stack implementation for UPnP devices.

`#include <BrisaUpnp/BrisaSSDPServer>`

Public Slots

- bool isRunning ()

  Returns true if BrisaSSDPServer is running.

- void start ()

  Call this method to join the multicast group and start listening for UPnP msearch responses.

- void stop ()

  Stops the BrisaSSDPServer.

- void doNotify (const QString &usn, const QString &location, const QString &st, const QString &server, const QString &cacheControl)

  Sends a UPnP notify alive message to the multicast group with the given information.

- void doByeBye (const QString &usn, const QString &st)

  Sends a UPnP notify byebye message to the multicast group with the given information.

- void respondMSearch (const QString &senderIp, quint16 senderPort, const QString &cacheControl, const QString &date, const QString &location, const QString &server, const QString &st, const QString &usn)

  Sends a UPnP msearch response message to the given sender IP address and port.

Signals

- void msearchRequestReceived (const QString &st, const QString &senderIp, quint16 senderPort)

  This signal is emmited when the BrisaSSDPServer receives a valid UPnP msearch request.

Public Member Functions

- BrisaSSDPServer (QObject *parent=0)

  Constructs a BrisaSSDPServer with the given parent object.

- virtual ~BrisaSSDPServer ()

  Destroys the Object.

6.30.1 Detailed Description

SSDP stack implementation for UPnP devices. Call *start()* to begin listening for MSearch requests from control points. Whenever a new msearch request is parsed by the BrisaSSDPServer, a *msearchRequestReceived()* signal is emmited containning all of the request information. You can connect this signal to some slot wich calls *respondMSearch()* and get a synchronous response to msearch requests.

BrisaSSDPServer also implements SSDP notify messages. Call *doNotify()* or *doByeBye()* when entering or leaving the multicast group.

6.30.2 Constructor & Destructor Documentation

6.30.2.1 BrisaSSDPServer::BrisaSSDPServer (QObject * *parent* = 0)

Constructs a BrisaSSDPServer with the given parent object.

6.30.2.2 BrisaSSDPServer::~BrisaSSDPServer () [virtual]

Destroys the Object. Stops the server if running.

6.30.3 Member Function Documentation

6.30.3.1 void BrisaSSDPServer::doByeBye (const QString & *usn*, const QString & *st*) [slot]

Sends a UPnP notify byebye message to the multicast group with the given information.

See also:

doNotify()

Referenced by BrisaUpnp::BrisaDevice::doByeBye().

6.30.3.2 void BrisaSSDPServer::doNotify (const QString & *usn*, const QString & *location*, const QString & *st*, const QString & *server*, const QString & *cacheControl*) [slot]

Sends a UPnP notify alive message to the multicast group with the given information.

See also:

doByeBye()

Referenced by BrisaUpnp::BrisaDevice::doNotify().

6.30.3.3 bool BrisaSSDPServer::isRunning () [slot]

Returns true if BrisaSSDPServer is running.

Referenced by start(), stop(), and ~BrisaSSDPServer().

6.30.3.4 void BrisaSSDPServer::msearchRequestReceived (const QString & *st*, const QString & *senderIp*, quint16 *senderPort*) [signal]

This signal is emmited when the BrisaSSDPServer receives a valid UPnP msearch request.

See also:

respondMSearch()

6.30.3.5 void BrisaSSDPServer::respondMSearch (const QString & *senderIp*, quint16 *senderPort*, const QString & *cacheControl*, const QString & *date*, const QString & *location*, const QString & *server*, const QString & *st*, const QString & *usn*) [slot]

Sends a UPnP msearch response message to the given sender IP address and port. Connect this slot to a proper signal to get synchronous response for msearch requests.

See also:

msearchRequestReceived()

Referenced by BrisaUpnp::BrisaDevice::respondMSearch().

6.30.3.6 void BrisaSSDPServer::start () [slot]

Call this method to join the multicast group and start listening for UPnP msearch responses.

See also:

stop()

Referenced by BrisaUpnp::BrisaDevice::start().

6.30.3.7 void BrisaSSDPServer::stop () [slot]

Stops the BrisaSSDPServer.

See also:

start()

Referenced by BrisaUpnp::BrisaDevice::stop(), and ~BrisaSSDPServer().

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

- src/upnp/ssdp/brisassdpserver.h
- src/upnp/ssdp/brisassdpserver.cpp

6.31 BrisaUpnp::BrisaStateVariable Class Reference

Represents the service's state variables.

`#include <BrisaUpnp/BrisaStateVariable>`

Public Types

- enum BrisaStateVariableAttribute {
  Name, SendEvents, DataType, DefaultValue,
  AllowedValue, Minimum, Maximum, Step,
  Value }

Signals

- void changed (BrisaStateVariable *)

Public Member Functions

- BrisaStateVariable (QString sendEvents="", QString name="", QString datatype="", QString defaultValue="", QString maximum="", QString minimum="", QString step="", QObject *parent=0)

  Constructs a BrisaStateVariable that sendEvents with the given name, datatype, defaultValue, maximum value, minimum value, value step, and parent.

- BrisaStateVariable (const BrisaStateVariable &)

  Constructs a BrisaStateVariable from the given variable.

- BrisaStateVariable & operator= (const BrisaStateVariable &)

  Sets this variable equals to variable.

- void setAttribute (BrisaStateVariableAttribute attr, QVariant value)

  Sets its attribute attr to the given value.

- QString getAttribute (BrisaStateVariableAttribute attr, int index=0) const

  Returns attr value as a QString.

- QVariant getValue () const

  Returns the stored value as a QVariant.

- QVariant::Type getDataType () const
- bool sendEvents () const

  Returns true if the variable is set to send events.

- void addAllowedValue (QString allowedValue)

  Adds a value to the list of values that can be set to its Value attribute.

- QList< QString > getAllowedValueList ()

  Returns the list of values that can be set to its Value attribute.

- void clear ()

  Clears this variable's attributtes.

6.31.1 Detailed Description

Represents the service's state variables.

6.31.2 Member Enumeration Documentation

6.31.2.1 enum BrisaUpnp::BrisaStateVariable::BrisaStateVariableAttribute

Enumerator:

Name
SendEvents
DataType
DefaultValue
AllowedValue
Minimum
Maximum
Step
Value

6.31.3 Constructor & Destructor Documentation

6.31.3.1 BrisaStateVariable::BrisaStateVariable (QString *sendEvents* = "", QString *name* = "", QString *datatype* = "", QString *defaultValue* = "", QString *maximum* = "", QString *minimum* = "", QString *step* = "", QObject * *parent* = 0)

Constructs a BrisaStateVariable that *sendEvents* with the given *name*, *datatype*, *defaultValue*, *maximum* value, *minimum* value, value *step*, and *parent*.

6.31.3.2 BrisaStateVariable::BrisaStateVariable (const BrisaStateVariable & *variable*)

Constructs a BrisaStateVariable from the given *variable*.

6.31.4 Member Function Documentation

6.31.4.1 void BrisaStateVariable::addAllowedValue (QString *allowedValue*)

Adds a value to the list of values that can be set to its Value attribute.

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters().

6.31.4.2 void BrisaUpnp::BrisaStateVariable::changed (BrisaStateVariable *) [signal]

Referenced by setAttribute().

6.31.4.3 void BrisaStateVariable::clear ()

Clears this variable's attributtes.

6.31.4.4 QList< QString > BrisaStateVariable::getAllowedValueList ()

Returns the list of values that can be set to its Value attribute.

6.31.4.5 QString BrisaStateVariable::getAttribute (BrisaStateVariableAttribute *attr*, int *index* = 0) const

Returns *attr* value as a QString.

Referenced by BrisaStateVariable(), and operator=().

6.31.4.6 QVariant::Type BrisaStateVariable::getDataType () const

6.31.4.7 QVariant BrisaStateVariable::getValue () const

Returns the stored value as a QVariant.

Referenced by BrisaStateVariable(), and operator=().

6.31.4.8 BrisaStateVariable & BrisaStateVariable::operator= (const BrisaStateVariable & *variable*)

Sets this variable equals to *variable*.

6.31.4.9 bool BrisaStateVariable::sendEvents () const

Returns true if the variable is set to send events.

Referenced by BrisaStateVariable(), and operator=().

6.31.4.10 void BrisaStateVariable::setAttribute (BrisaStateVariableAttribute *attr*, QVariant *value*)

Sets its attribute *attr* to the given *value*.

Referenced by BrisaUpnp::BrisaServiceXMLHandler::characters(), and BrisaUpnp::BrisaServiceXMLHandler::startElement().

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

- src/upnp/brisastatevariable.h
- src/upnp/brisastatevariable.cpp

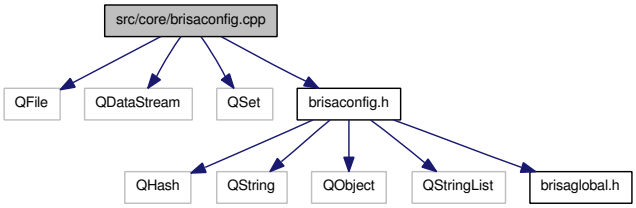
Chapter 7

File Documentation

7.1 src/core/brisaconfig.cpp File Reference

```
#include <QFile>
#include <QDataStream>
#include <QSet>
#include "brisaconfig.h"
```

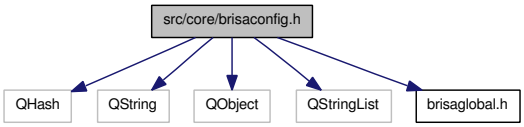
Include dependency graph for brisaconfig.cpp:



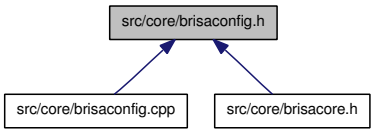
7.2 src/core/brisaconfig.h File Reference

```
#include <QHash>
#include <QString>
#include <QObject>
#include <QStringList>
#include "brisaglobal.h"
```

Include dependency graph for brisaconfig.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaCore::BrisaConfigurationManager

  Class that provides an easy way of managing configurations.

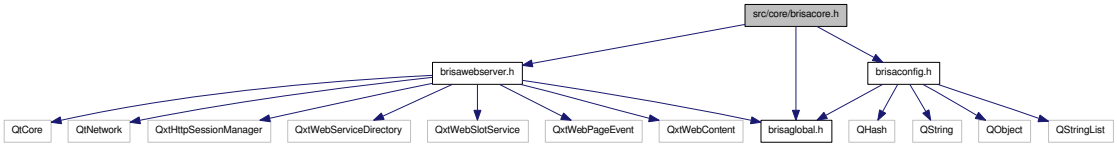
Namespaces

- namespace BrisaCore

7.3 src/core/brisacore.h File Reference

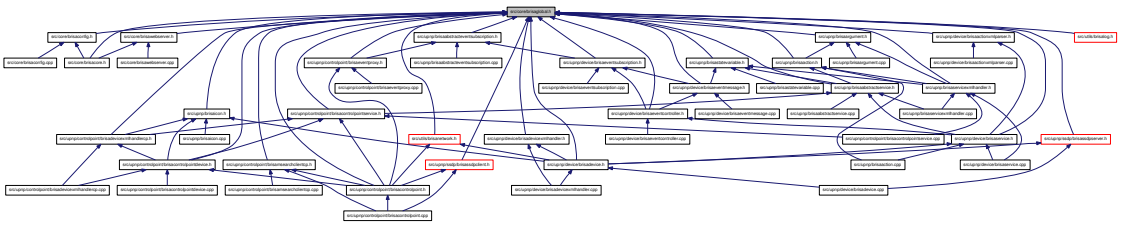
```
#include "brisawebserver.h"
#include "brisaconfig.h"
#include "brisaglobal.h"
```

Include dependency graph for brisacore.h:



7.4 src/core/brisaglobal.h File Reference

This graph shows which files directly or indirectly include this file:



Defines

- #define BRISA_VERSION 0x000001
- #define BRISA_VERSION_STR "0.1"
- #define BRISA_CORE_EXPORT Q_DECL_IMPORT
- #define BRISA_UTILS_EXPORT Q_DECL_IMPORT
- #define BRISA_UPNP_EXPORT Q_DECL_IMPORT

7.4.1 Define Documentation

7.4.1.1 #define BRISA_CORE_EXPORT Q_DECL_IMPORT

7.4.1.2 #define BRISA_UPNP_EXPORT Q_DECL_IMPORT

7.4.1.3 #define BRISA_UTILS_EXPORT Q_DECL_IMPORT

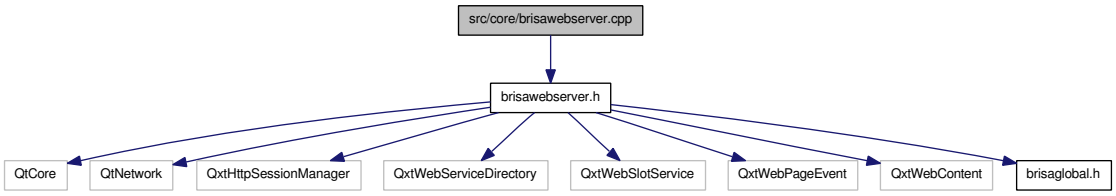
7.4.1.4 #define BRISA_VERSION 0x000001

7.4.1.5 #define BRISA_VERSION_STR "0.1"

7.5 src/core/brisawebserver.cpp File Reference

```
#include "brisawebserver.h"
```

Include dependency graph for brisawebserver.cpp:



Functions

- static QString extractPathLevel (QxtWebRequestEvent ∗event)

7.5.1 Function Documentation

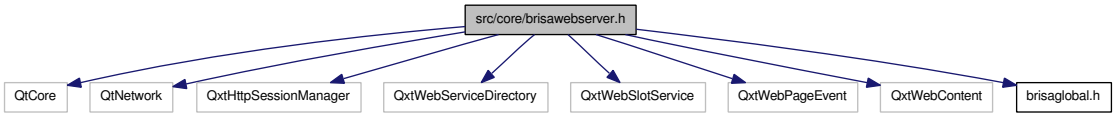
7.5.1.1 static QString extractPathLevel (QxtWebRequestEvent ∗ *event*) [static]

Referenced by BrisaCore::BrisaWebServiceProvider::pageRequestedEvent().

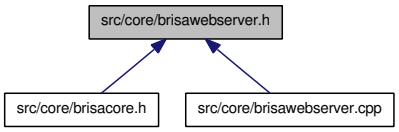
7.6 src/core/brisawebserver.h File Reference

```
#include <QtCore>
#include <QtNetwork>
#include <QxtHttpSessionManager>
#include <QxtWebServiceDirectory>
#include <QxtWebSlotService>
#include <QxtWebPageEvent>
#include <QxtWebContent>
#include "brisaglobal.h"
```

Include dependency graph for brisawebserver.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaCore::BrisaWebService
  Web service abstraction class.
- class BrisaCore::BrisaWebFile
  Adds a file to the web server.
- class BrisaCore::BrisaWebStaticContent
  The BrisaWebStaticContent class stores a QString into the web server.
- class BrisaCore::BrisaWebServiceProvider
  The BrisaWebServiceProvider class works as web service manager for the web server.
- class BrisaCore::BrisaWebserver
  The BrisaWebserver class is a web server implementation.

Namespaces

- namespace BrisaCore

Defines

- #define DEFAULT_PAGE "<html><body><h1>BRisa WebServer!\n</body></html>"

7.6.1 Define Documentation

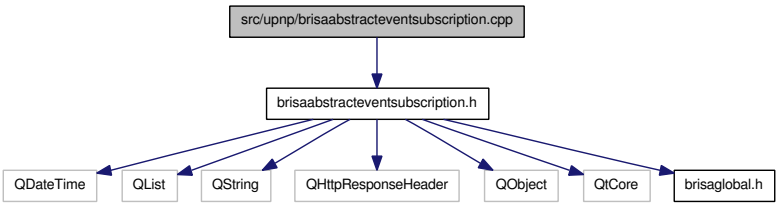
7.6.1.1 #define DEFAULT_PAGE "<html><body><h1>BRisa WebServer!\n</body></html>"

Referenced by BrisaCore::BrisaWebServiceProvider::BrisaWebServiceProvider(), and BrisaCore::BrisaWebService::pageRequestedEvent().

7.7 src/upnp/brisaabstracteventsubscription.cpp File Reference

```
#include "brisaabstracteventsubscription.h"
```

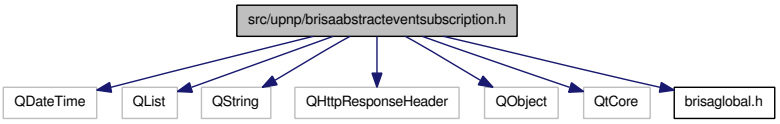
Include dependency graph for brisaabstracteventsubscription.cpp:



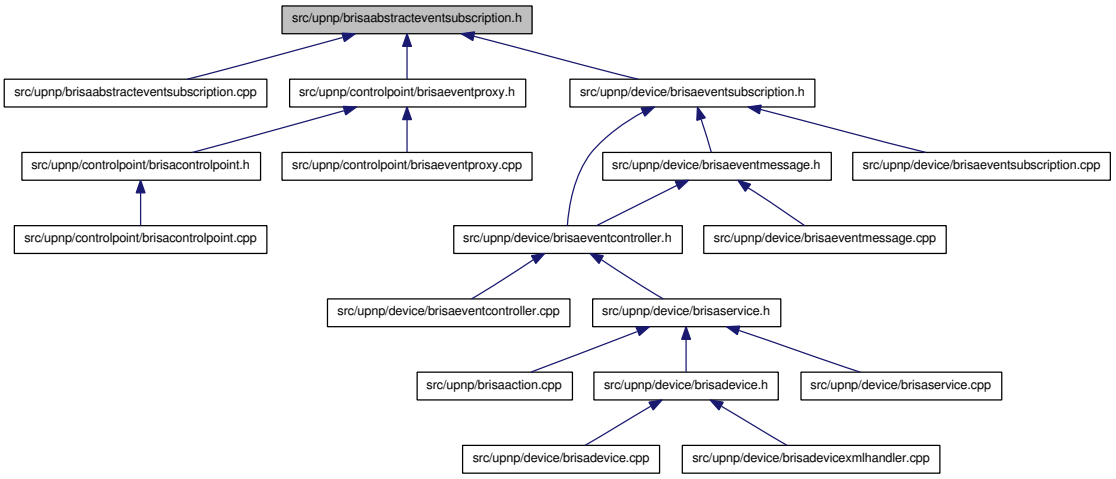
7.8 src/upnp/brisaabstracteventsubscription.h File Reference

```
#include <QDateTime>
#include <QList>
#include <QString>
#include <QHttpResponseHeader>
#include <QObject>
#include <QtCore>
#include "brisaglobal.h"
```

Include dependency graph for brisaabstracteventsubscription.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaAbstractEventSubscription

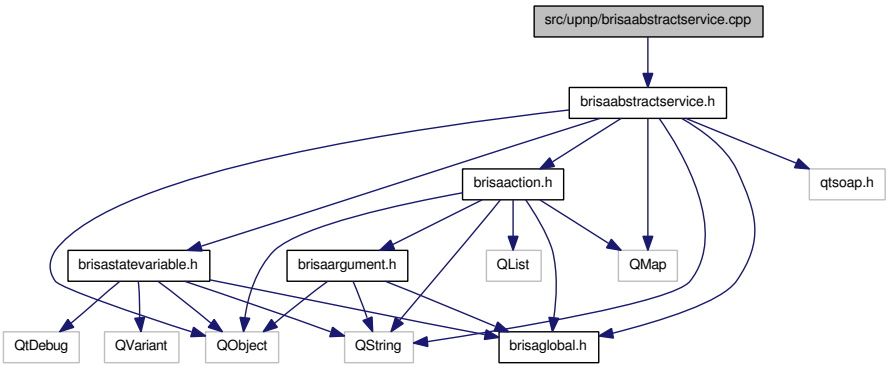
Namespaces

- namespace BrisaUpnp

7.9 src/upnp/brisaabstractservice.cpp File Reference

```
#include "brisaabstractservice.h"
```

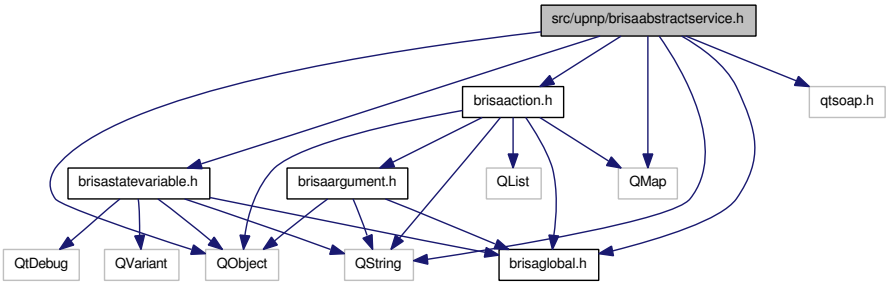
Include dependency graph for brisaabstractservice.cpp:



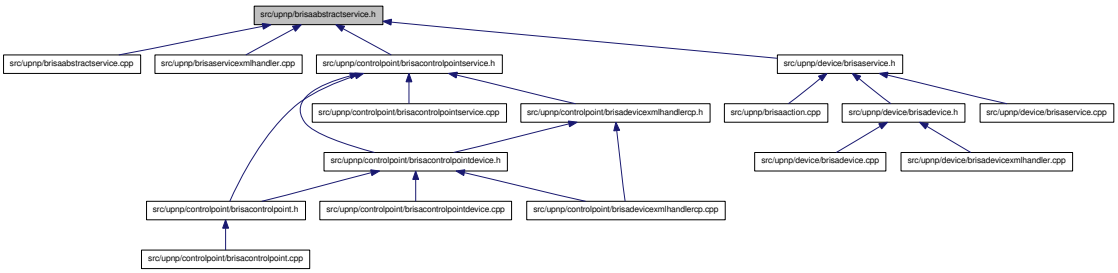
7.10 src/upnp/brisaabstractservice.h File Reference

```
#include "brisaaction.h"
#include "brisastatevariable.h"
#include "brisaglobal.h"
#include <qtsoap.h>
#include <QMap>
#include <QString>
#include <QObject>
```

Include dependency graph for brisaabstractservice.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaAbstractService

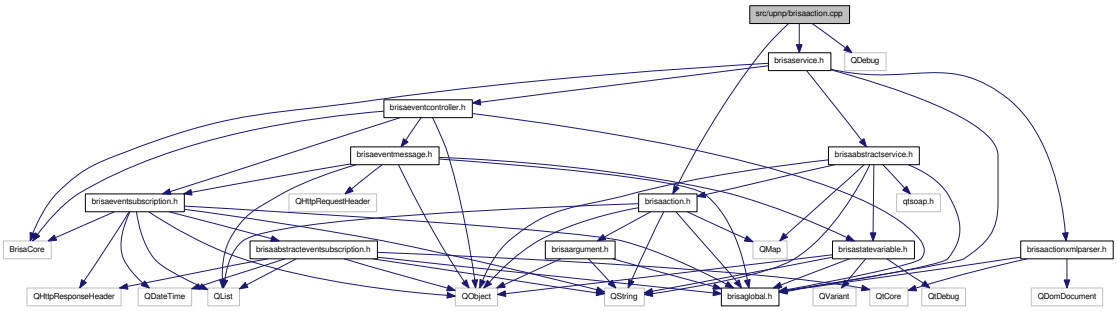
Namespaces

- namespace BrisaUpnp

7.11 src/upnp/brisaaction.cpp File Reference

```
#include "brisaaction.h"
#include "brisaservice.h"
#include <QDebug>
```

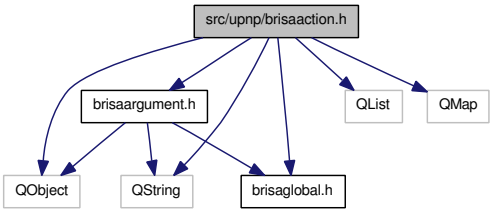
Include dependency graph for brisaaction.cpp:



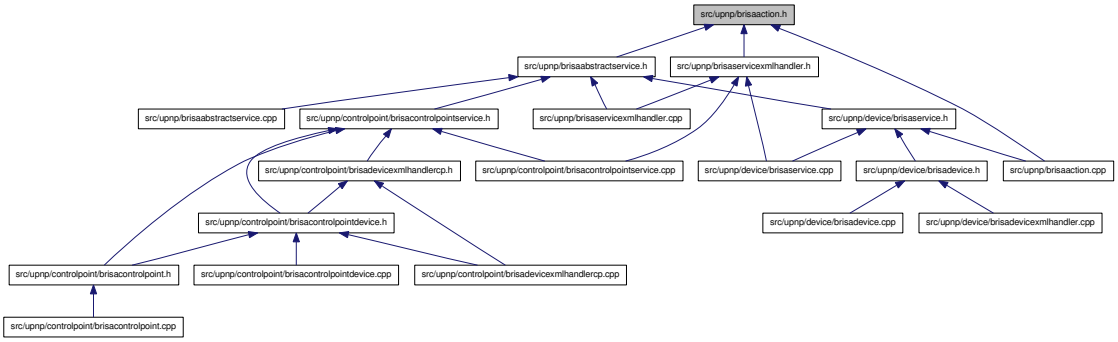
7.12 src/upnp/brisaaction.h File Reference

```
#include "brisaargument.h"
#include "brisaglobal.h"
#include <QString>
#include <QList>
#include <QMap>
#include <QObject>
```

Include dependency graph for brisaaction.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaAction

  Template method class that represents each service's action.

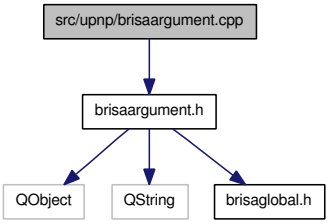
Namespaces

- namespace BrisaUpnp

7.13 src/upnp/brisaargument.cpp File Reference

```
#include "brisaargument.h"
```

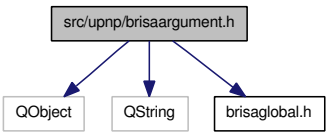
Include dependency graph for brisaargument.cpp:



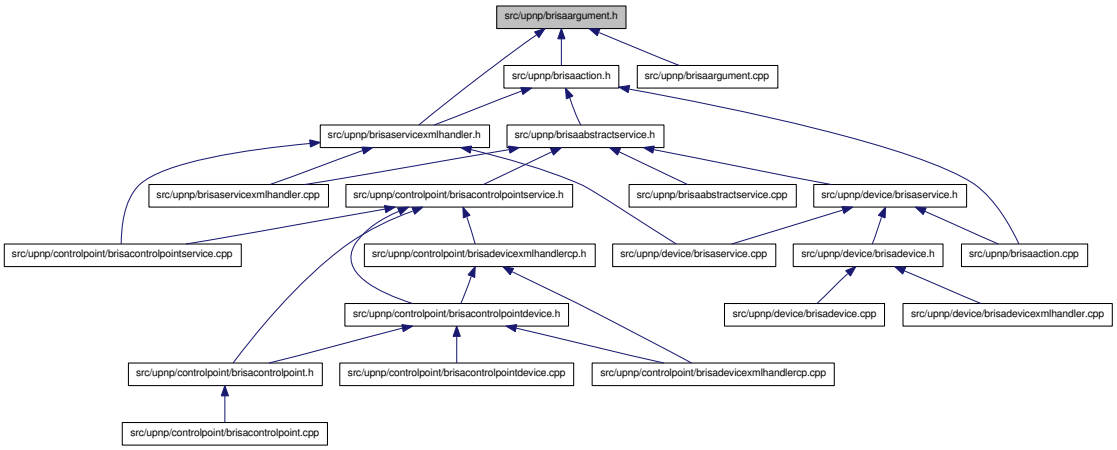
7.14 src/upnp/brisaargument.h File Reference

```
#include <QObject>
#include <QString>
#include "brisaglobal.h"
```

Include dependency graph for brisaargument.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaArgument

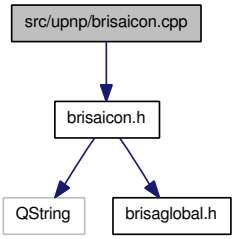
Namespaces

- namespace BrisaUpnp

7.15 src/upnp/brisaicon.cpp File Reference

```
#include "brisaicon.h"
```

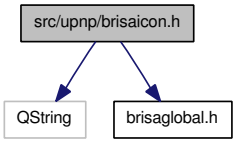
Include dependency graph for brisaicon.cpp:



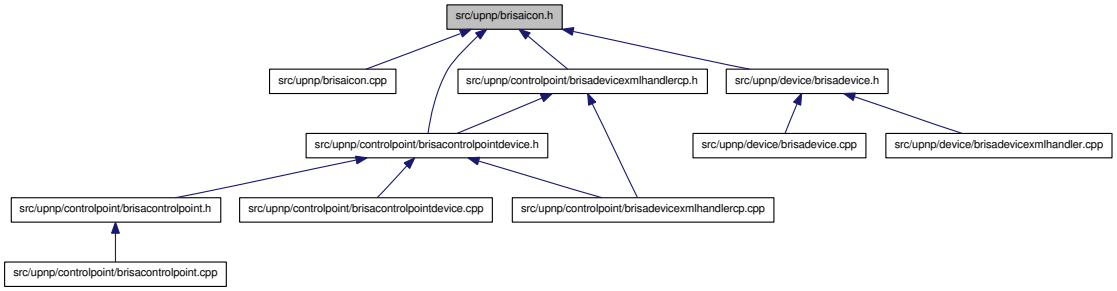
7.16 src/upnp/brisaicon.h File Reference

```
#include <QString>
#include "brisaglobal.h"
```

Include dependency graph for brisaicon.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaIcon

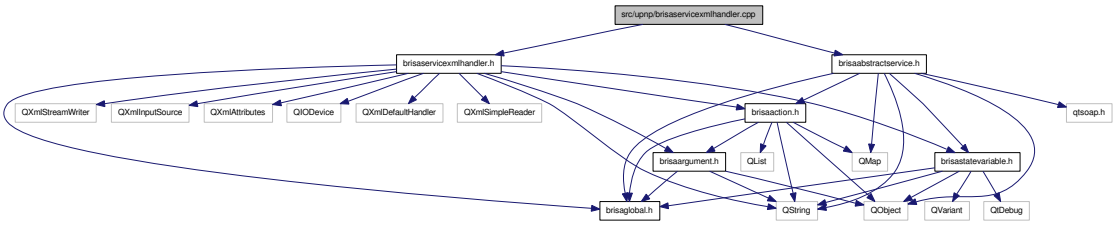
Namespaces

- namespace BrisaUpnp

7.17 src/upnp/brisaservicexmlhandler.cpp File Reference

```
#include "brisaservicexmlhandler.h"
#include "brisaabstractservice.h"
```

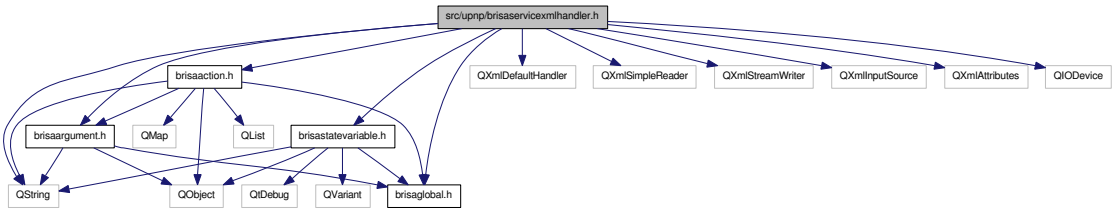
Include dependency graph for brisaservicexmlhandler.cpp:



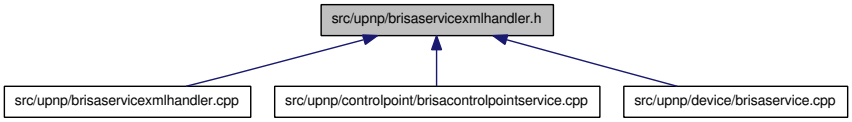
7.18 src/upnp/brisaservicexmlhandler.h File Reference

```
#include "brisaaction.h"
#include "brisaargument.h"
#include "brisastatevariable.h"
#include "brisaglobal.h"
#include <QXmlDefaultHandler>
#include <QXmlSimpleReader>
#include <QXmlStreamWriter>
#include <QXmlInputSource>
#include <QXmlAttributes>
#include <QIODevice>
#include <QString>
```

Include dependency graph for brisaservicexmlhandler.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaServiceParserContext
- class BrisaUpnp::BrisaServiceXMLHandler

Namespaces

- namespace BrisaUpnp

Enumerations

- enum BrisaUpnp::saxParserState {
  BrisaUpnp::ServiceStart, BrisaUpnp::Scpd, BrisaUpnp::ServiceSpecVersion, BrisaUpnp::ServiceSpecVersionMajor,

BrisaUpnp::ServiceSpecVersionMinor, BrisaUpnp::ActionList, BrisaUpnp::Action, BrisaUpnp::ActionName,

BrisaUpnp::ArgumentList, BrisaUpnp::Argument, BrisaUpnp::ArgumentName, BrisaUpnp::ArgumentDirection,

BrisaUpnp::RelatedStateVariable, BrisaUpnp::ServiceStateTable, BrisaUpnp::StateVariable, BrisaUpnp::StateVariableName,

BrisaUpnp::StateVariableDataType, BrisaUpnp::StateVariableDefaultValue, BrisaUpnp::StateVariableAllowedValueList, BrisaUpnp::StateVariableAllowedValue,

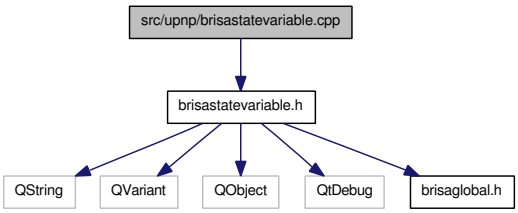
BrisaUpnp::StateVariableAllowedValueRange, BrisaUpnp::StateVariableAllowedValueRangeMinimum, BrisaUpnp::StateVariableAllowedValueRangeMaximum, BrisaUpnp::StateVariableAllowedValueRangeStep,

BrisaUpnp::ServiceFinished, BrisaUpnp::ServiceError = -1 }

7.19 src/upnp/brisastatevariable.cpp File Reference

```
#include "brisastatevariable.h"
```

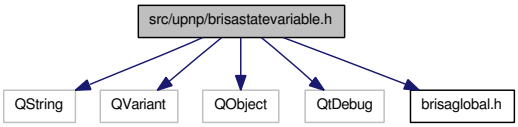
Include dependency graph for brisastatevariable.cpp:



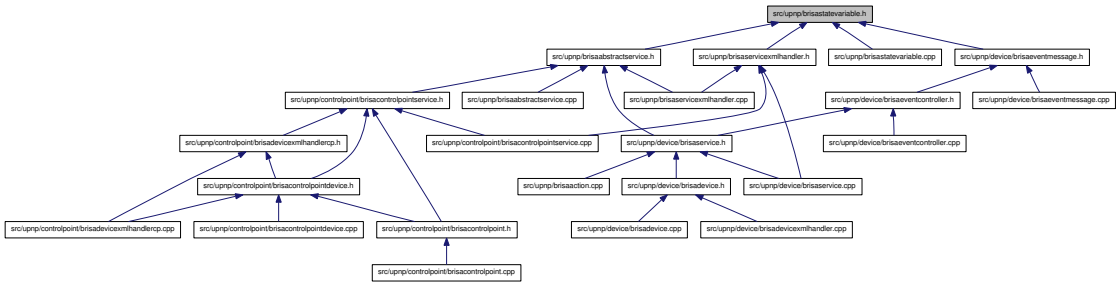
7.20 src/upnp/brisastatevariable.h File Reference

```
#include <QString>
#include <QVariant>
#include <QObject>
#include <QtDebug>
#include "brisaglobal.h"
```

Include dependency graph for brisastatevariable.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaStateVariable

  Represents the service's state variables.

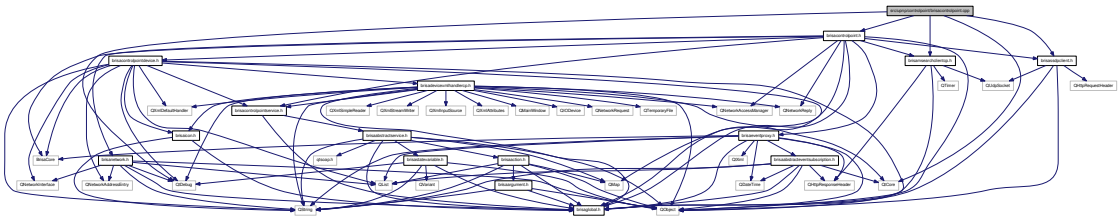
Namespaces

- namespace BrisaUpnp

7.21 src/upnp/controlpoint/brisacontrolpoint.cpp File Reference

```
#include <QtCore>
#include <QtDebug>
#include "brisacontrolpoint.h"
#include "brisassdpclient.h"
#include "brisamsearchclientcp.h"
```

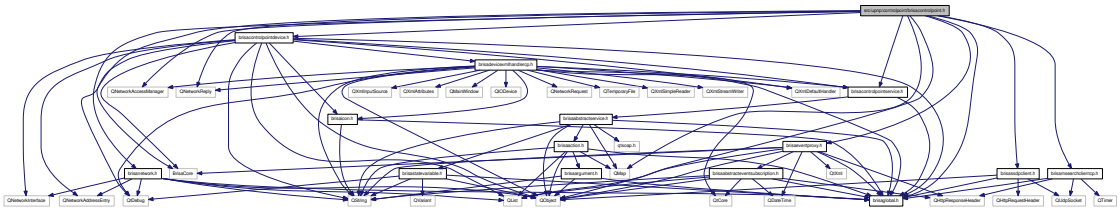
Include dependency graph for brisacontrolpoint.cpp:



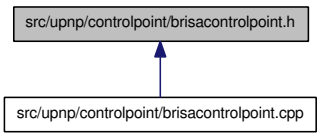
7.22 src/upnp/controlpoint/brisacontrolpoint.h File Reference

```
#include <QNetworkAccessManager>
#include <QNetworkReply>
#include <QObject>
#include <QMap>
#include <BrisaCore>
#include "brisanetwork.h"
#include "brisacontrolpointdevice.h"
#include "brisacontrolpointservice.h"
#include "brisaeventproxy.h"
#include "brisamsearchclientcp.h"
#include "brisassdpclient.h"
#include "brisaglobal.h"
```

Include dependency graph for brisacontrolpoint.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaControlPoint

  Class that implements the control part in UPnP Architecture.

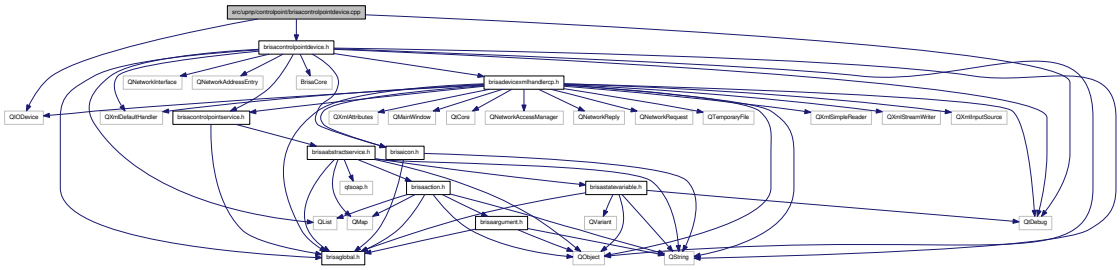
Namespaces

- namespace BrisaUpnp

7.23 src/upnp/controlpoint/brisacontrolpointdevice.cpp File Reference

```
#include <QtDebug>
#include <QIODevice>
#include "brisacontrolpointdevice.h"
```

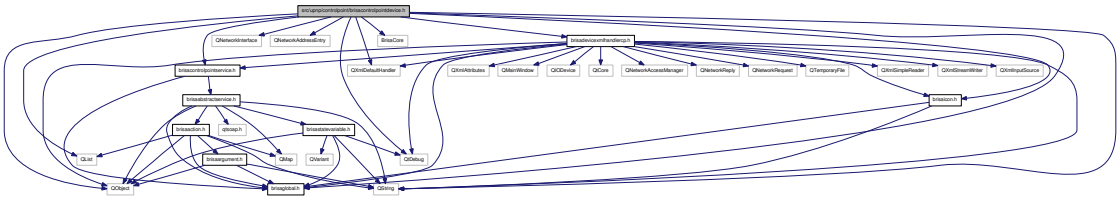
Include dependency graph for brisacontrolpointdevice.cpp:



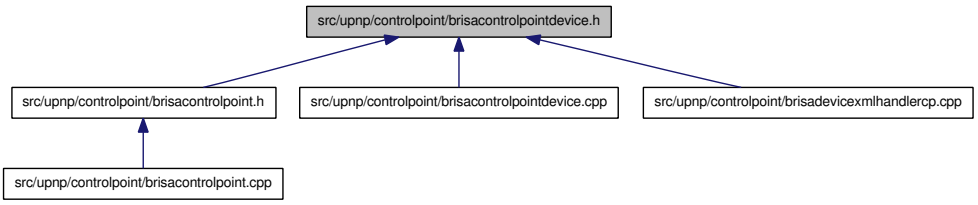
7.24 src/upnp/controlpoint/brisacontrolpointdevice.h File Reference

```
#include <QString>
#include <QList>
#include <QXmlDefaultHandler>
#include <QNetworkInterface>
#include <QNetworkAddressEntry>
#include <QtDebug>
#include <QObject>
#include <BrisaCore>
#include "brisaicon.h"
#include "brisacontrolpointservice.h"
#include "brisadevicexmlhandlercp.h"
#include "brisaglobal.h"
```

Include dependency graph for brisacontrolpointdevice.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaControlPointDevice

  Class that implements the devices that control point part is going to handle.

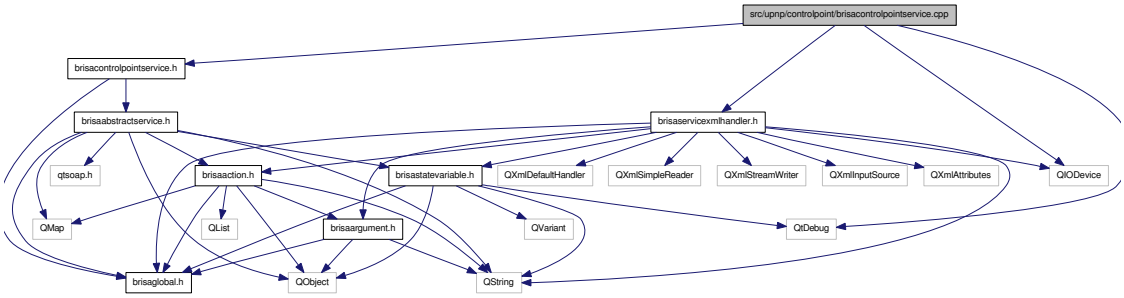
Namespaces

- namespace BrisaUpnp

7.25 src/upnp/controlpoint/brisacontrolpointservice.cpp File Reference

```
#include "brisacontrolpointservice.h"
#include "brisaservicexmlhandler.h"
#include <QtDebug>
#include <QIODevice>
```

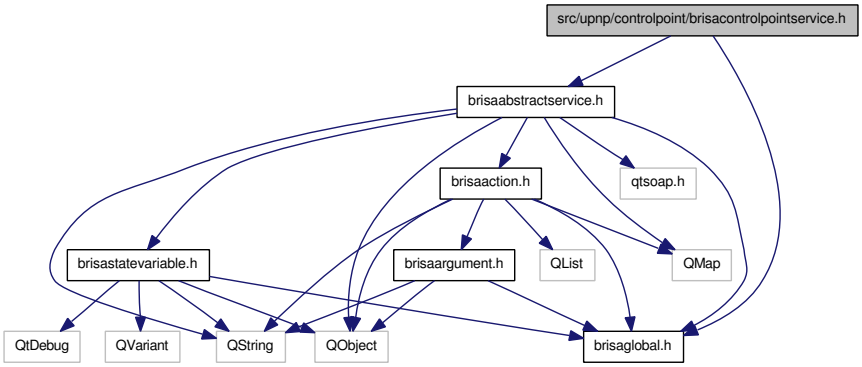
Include dependency graph for brisacontrolpointservice.cpp:



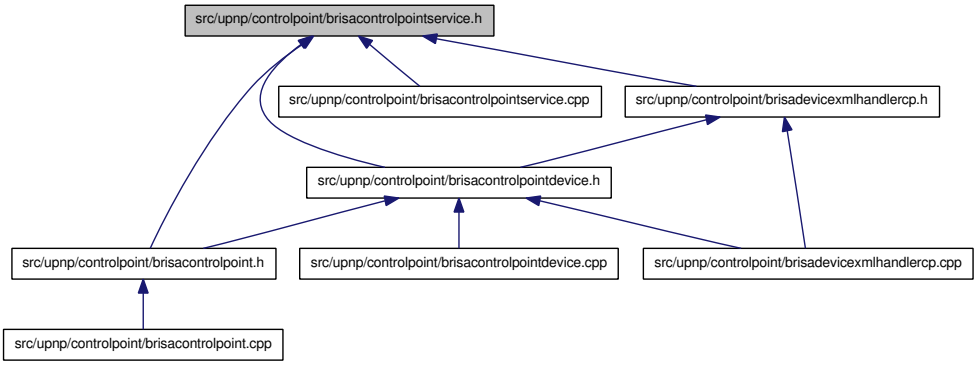
7.26 src/upnp/controlpoint/brisacontrolpointservice.h File Reference

```
#include "brisaabstractservice.h"
#include "brisaglobal.h"
```

Include dependency graph for brisacontrolpointservice.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaControlPointService

  BrisaControlPointService is the class that implements action control in UPnP Architecture.

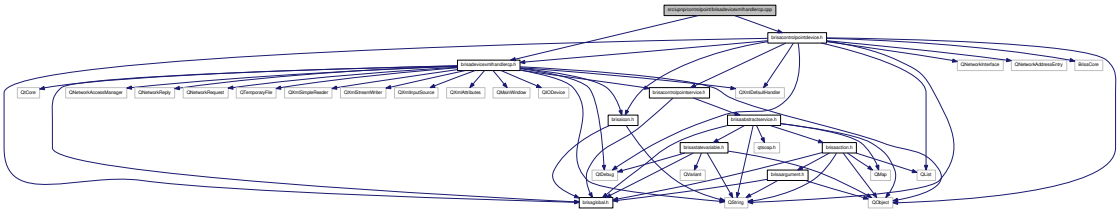
Namespaces

- namespace BrisaUpnp

7.27 src/upnp/controlpoint/brisadevicexmlhandlercp.cpp File Reference

```
#include "brisadevicexmlhandlercp.h"
#include "brisacontrolpointdevice.h"
```

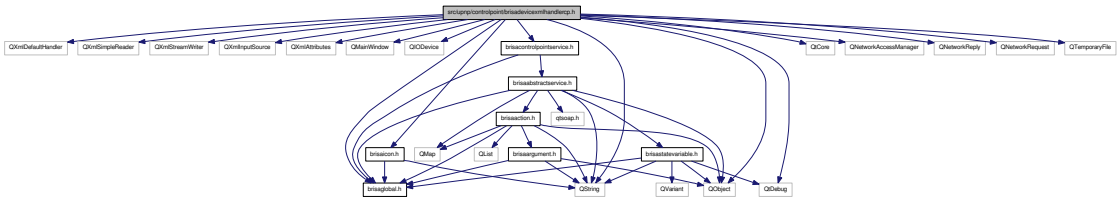
Include dependency graph for brisadevicexmlhandlercp.cpp:



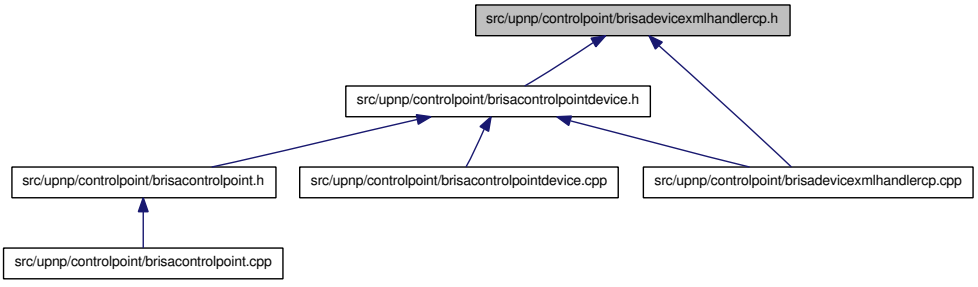
7.28 src/upnp/controlpoint/brisadevicexmlhandlercp.h File Reference

```
#include <QXmlDefaultHandler>
#include <QXmlSimpleReader>
#include <QXmlStreamWriter>
#include <QXmlInputSource>
#include <QXmlAttributes>
#include <QMainWindow>
#include <QIODevice>
#include <QString>
#include <QtDebug>
#include <QtCore>
#include <QObject>
#include <QNetworkAccessManager>
#include <QNetworkReply>
#include <QNetworkRequest>
#include <QTemporaryFile>
#include "brisaicon.h"
#include "brisacontrolpointservice.h"
#include "brisaglobal.h"
```

Include dependency graph for brisadevicexmlhandlercp.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaDeviceParserContext
- class BrisaUpnp::BrisaDeviceXMLHandlerCP

  BrisaDeviceXMLHandlerCP creates a device from a xml description file, with all it's attributes, it let's it ready to be used.

- class BrisaUpnp::BrisaServiceFetcher

Namespaces

- namespace BrisaUpnp

Enumerations

- enum BrisaUpnp::SaxParserState {

  BrisaUpnp::Start, BrisaUpnp::Root, BrisaUpnp::SpecVersion, BrisaUpnp::SpecVersionMajor,

  BrisaUpnp::SpecVersionMinor, BrisaUpnp::UrlBase, BrisaUpnp::Device, BrisaUpnp::DeviceType,

  BrisaUpnp::DeviceFriendlyName, BrisaUpnp::Manufacturer, BrisaUpnp::ManufacturerUrl, BrisaUpnp::ModelDescription,

  BrisaUpnp::ModelName, BrisaUpnp::ModelUrl, BrisaUpnp::SerialNumber, BrisaUpnp::Udn,

  BrisaUpnp::Upc, BrisaUpnp::IconList, BrisaUpnp::Icon, BrisaUpnp::IconMimetype,

  BrisaUpnp::IconWidth, BrisaUpnp::IconHeight, BrisaUpnp::IconDepth, BrisaUpnp::IconUrl,

  BrisaUpnp::PresentationUrl, BrisaUpnp::DeviceList, BrisaUpnp::ServiceList, BrisaUpnp::Service,

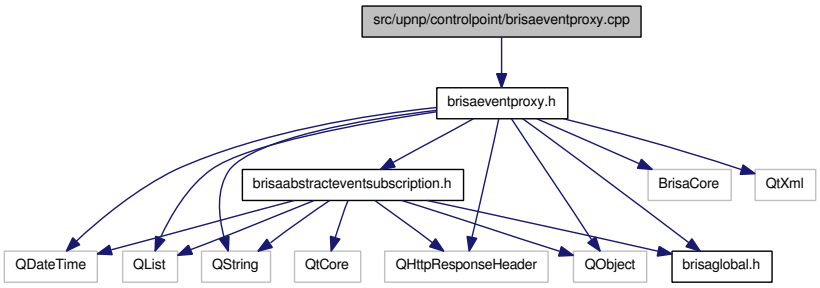
  BrisaUpnp::ServiceType, BrisaUpnp::ServiceId, BrisaUpnp::ServiceScpdUrl, BrisaUpnp::ServiceControlUrl,

  BrisaUpnp::ServiceEventSubUrl, BrisaUpnp::Finished, BrisaUpnp::Error = -1 }

7.29 src/upnp/controlpoint/brisaeventproxy.cpp File Reference

```
#include "brisaeventproxy.h"
```

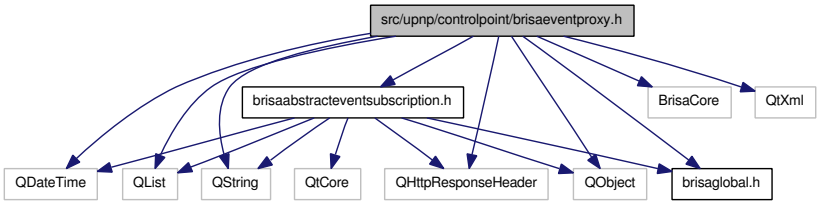
Include dependency graph for brisaeventproxy.cpp:



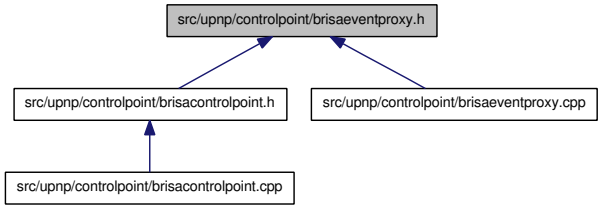
7.30 src/upnp/controlpoint/brisaeventproxy.h File Reference

```
#include "brisaabstracteventsubscription.h"
#include "brisaglobal.h"
#include <BrisaCore>
#include <QDateTime>
#include <QList>
#include <QString>
#include <QHttpResponseHeader>
#include <QObject>
#include <QtXml>
```

Include dependency graph for brisaeventproxy.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaEventProxy

  Class that implements the event part in control point side in Brisa Qt, this class makes the operations of subscribe, renew subscription and unsubscribe.

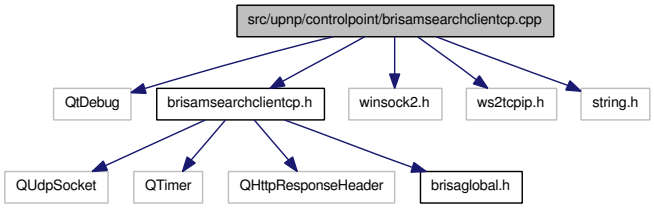
Namespaces

- namespace BrisaUpnp

7.31 src/upnp/controlpoint/brisamsearchclientcp.cpp File Reference

```
#include <QtDebug>
#include "brisamsearchclientcp.h"
#include <winsock2.h>
#include <ws2tcpip.h>
#include <string.h>
```

Include dependency graph for brisamsearchclientcp.cpp:



Defines

- #define UPNP_MSEARCH_DISCOVER

7.31.1 Define Documentation

7.31.1.1 #define UPNP_MSEARCH_DISCOVER

Value:

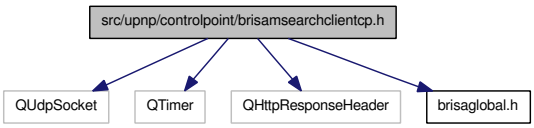
```
"M-SEARCH * HTTP/1.1\r\n"       \
                                "HOST: 239.255.255.250:1900\r\n"\
                                "MAN: \"ssdp:discover\"\r\n"    \
                                "MX: %1\r\n"                    \
                                "ST: %2\r\n"                    \
                                "\r\n"
```

Referenced by BrisaUpnp::BrisaMSearchClientCP::discover().

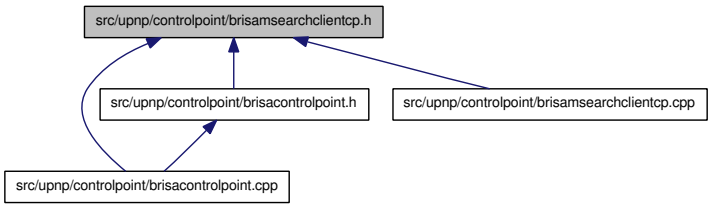
7.32 src/upnp/controlpoint/brisamsearchclientcp.h File Reference

```
#include <QUdpSocket>
#include <QTimer>
#include <QHttpResponseHeader>
#include "brisaglobal.h"
```

Include dependency graph for brisamsearchclientcp.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaMSearchClientCP

  SSDP MSearch implementation for UPnP control points.

Namespaces

- namespace BrisaUpnp

Defines

- #define DEFAULT_SEARCH_TIME 600
- #define DEFAULT_SEARCH_TYPE "ssdp:all"

7.32.1 Define Documentation

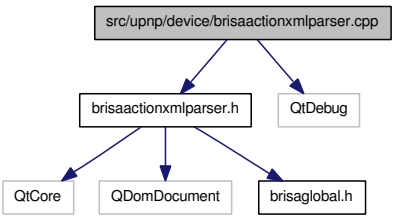
7.32.1.1 #define DEFAULT_SEARCH_TIME 600

7.32.1.2 #define DEFAULT_SEARCH_TYPE "ssdp:all"

7.33 src/upnp/device/brisaactionxmlparser.cpp File Reference

```
#include "brisaactionxmlparser.h"
#include <QtDebug>
```

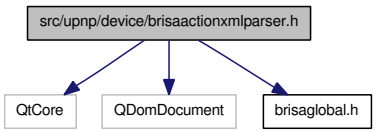
Include dependency graph for brisaactionxmlparser.cpp:



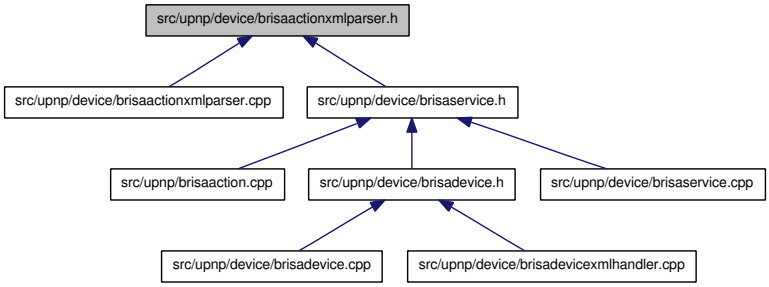
7.34 src/upnp/device/brisaactionxmlparser.h File Reference

```
#include <QtCore>
#include <QDomDocument>
#include "brisaglobal.h"
```

Include dependency graph for brisaactionxmlparser.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaActionXmlParser

  XML parser for SOAP requests.

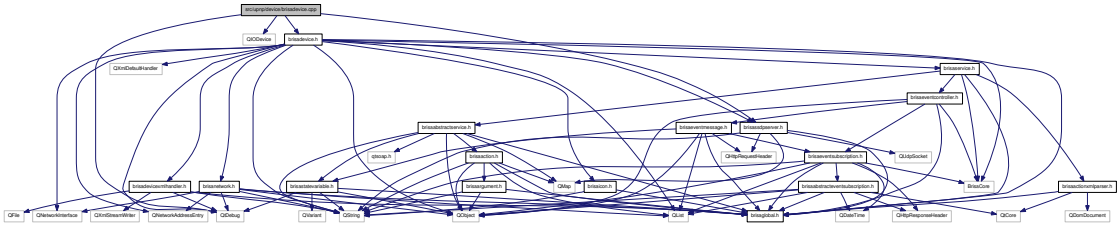
Namespaces

- namespace BrisaUpnp

7.35 src/upnp/device/brisadevice.cpp File Reference

```
#include <QtDebug>
#include <QIODevice>
#include "brisadevice.h"
#include "brisassdpserver.h"
```

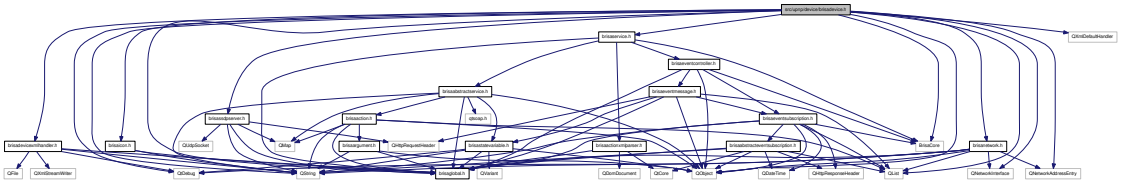
Include dependency graph for brisadevice.cpp:



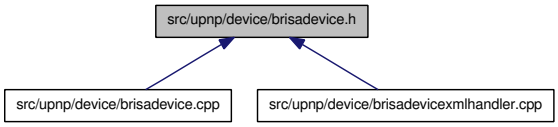
7.36 src/upnp/device/brisadevice.h File Reference

```
#include <QString>
#include <QList>
#include <QXmlDefaultHandler>
#include <QNetworkInterface>
#include <QNetworkAddressEntry>
#include <QtDebug>
#include <QObject>
#include <BrisaCore>
#include "brisanetwork.h"
#include "brisadevicexmlhandler.h"
#include "brisaservice.h"
#include "brisassdpserver.h"
#include "brisaicon.h"
#include "brisaglobal.h"
```

Include dependency graph for brisadevice.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaDevice

  UPnP device implementation.

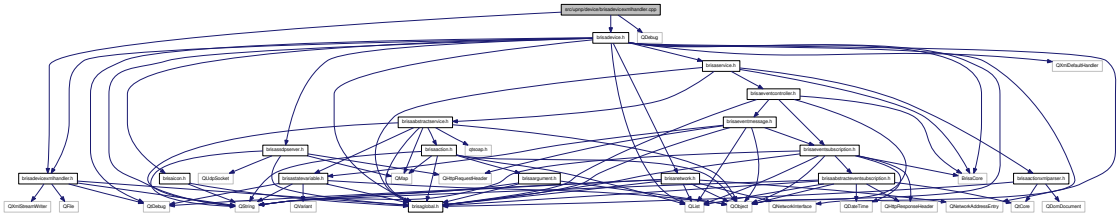
Namespaces

- namespace BrisaUpnp

7.37 src/upnp/device/brisadevicexmlhandler.cpp File Reference

```
#include "brisadevicexmlhandler.h"
#include "brisadevice.h"
#include <QDebug>
```

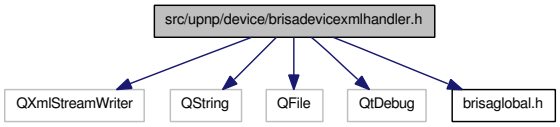
Include dependency graph for brisadevicexmlhandler.cpp:



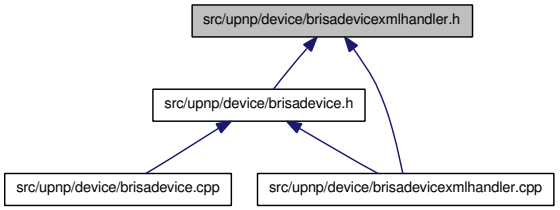
7.38 src/upnp/device/brisadevicexmlhandler.h File Reference

```
#include <QXmlStreamWriter>
#include <QString>
#include <QFile>
#include <QtDebug>
#include "brisaglobal.h"
```

Include dependency graph for brisadevicexmlhandler.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaDeviceXMLHandler

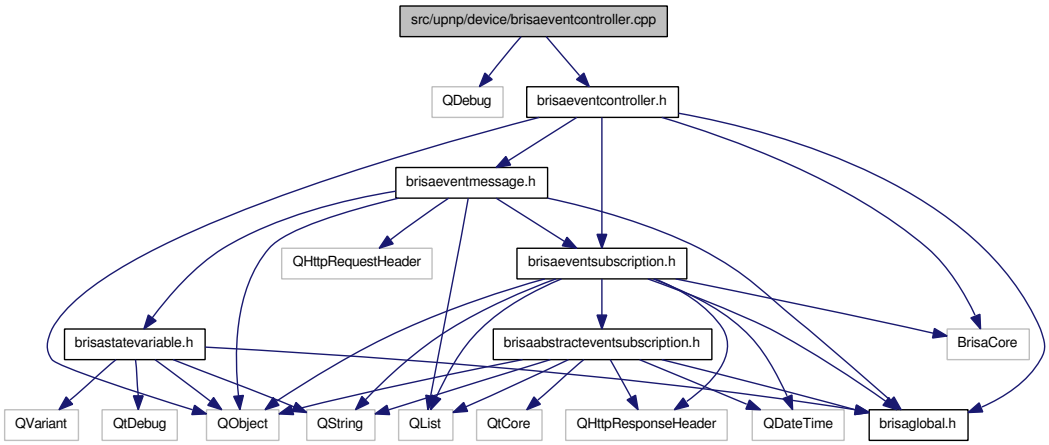
Namespaces

- namespace BrisaUpnp

7.39 src/upnp/device/brisaeventcontroller.cpp File Reference

```
#include <QDebug>
#include "brisaeventcontroller.h"
```

Include dependency graph for brisaeventcontroller.cpp:



Defines

- #define ERROR_400_MESSAGE "Bad Request"
- #define ERROR_412_MESSAGE "Precondition Failed"

7.39.1 Define Documentation

7.39.1.1 #define ERROR_400_MESSAGE "Bad Request"

Referenced by BrisaUpnp::BrisaEventController::subscribe(), and BrisaUpnp::BrisaEventController::unsubscribe().

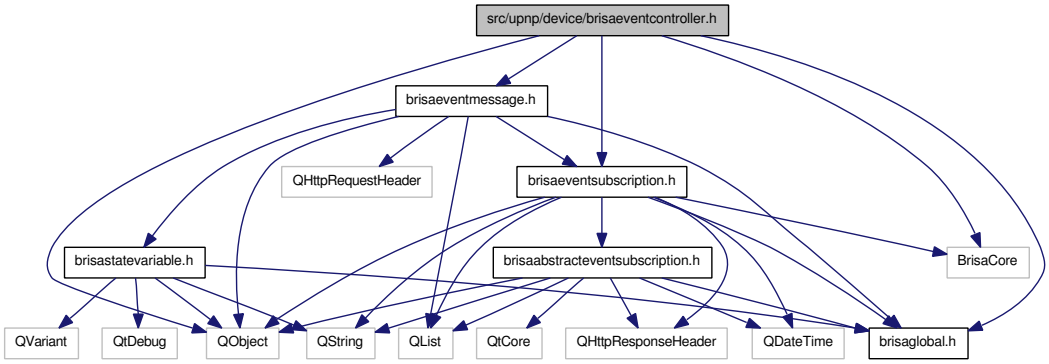
7.39.1.2 #define ERROR_412_MESSAGE "Precondition Failed"

Referenced by BrisaUpnp::BrisaEventController::subscribe(), and BrisaUpnp::BrisaEventController::unsubscribe().

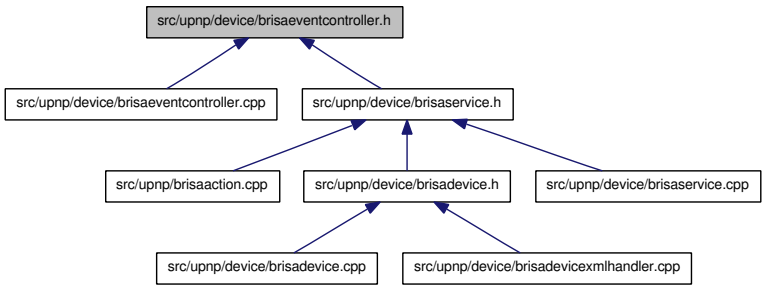
7.40 src/upnp/device/brisaeventcontroller.h File Reference

```
#include "brisaeventmessage.h"
#include "brisaeventsubscription.h"
#include "brisaglobal.h"
#include <BrisaCore>
#include <QObject>
```

Include dependency graph for brisaeventcontroller.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaEventController

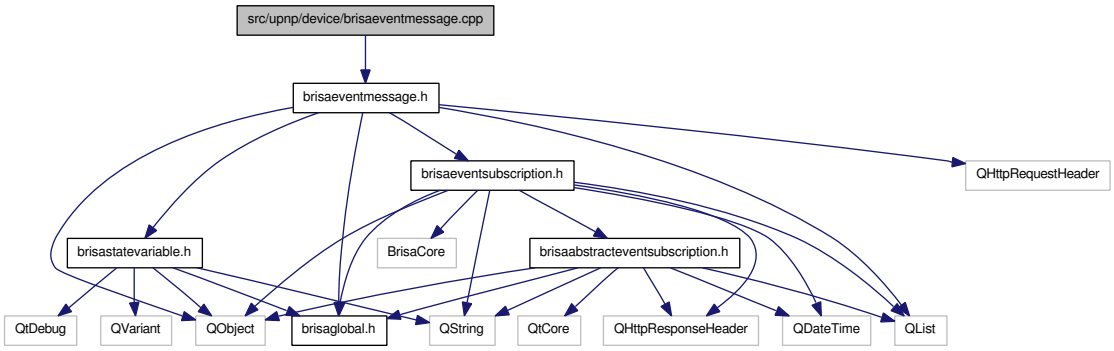
Namespaces

- namespace BrisaUpnp

7.41 src/upnp/device/brisaeventmessage.cpp File Reference

```
#include "brisaeventmessage.h"
```

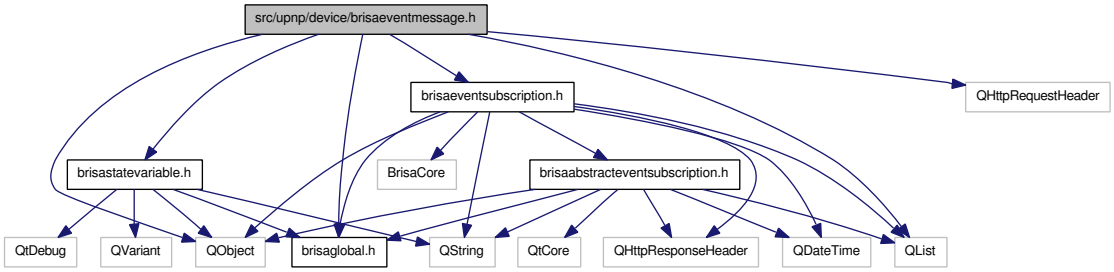
Include dependency graph for brisaeventmessage.cpp:



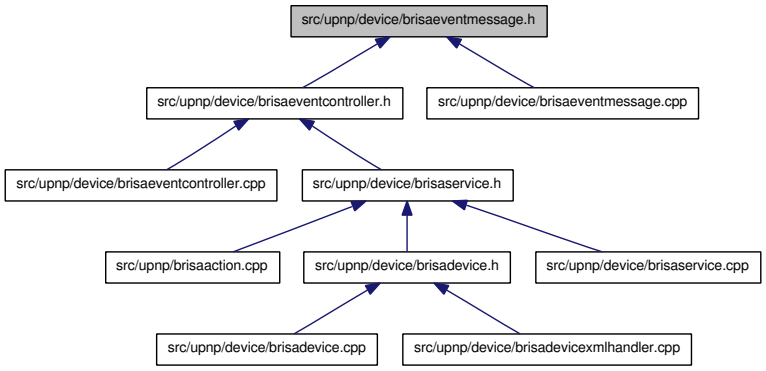
7.42 src/upnp/device/brisaeventmessage.h File Reference

```
#include <QObject>
#include <QList>
#include <QHttpRequestHeader>
#include "brisastatevariable.h"
#include "brisaeventsubscription.h"
#include "brisaglobal.h"
```

Include dependency graph for brisaeventmessage.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaEventMessage

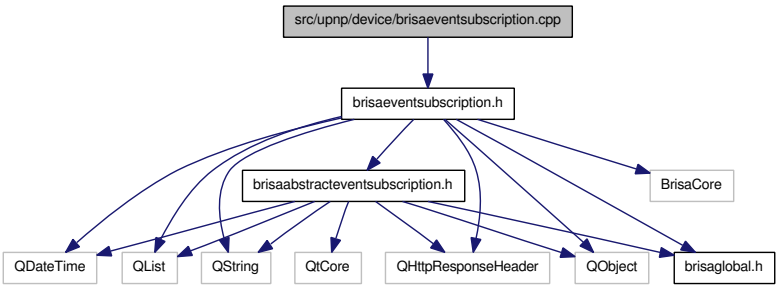
Namespaces

- namespace BrisaUpnp

7.43 src/upnp/device/brisaeventsubscription.cpp File Reference

```
#include "brisaeventsubscription.h"
```

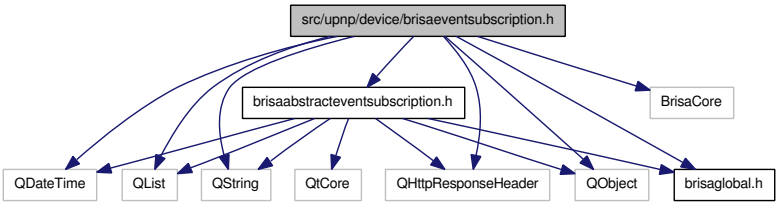
Include dependency graph for brisaeventsubscription.cpp:



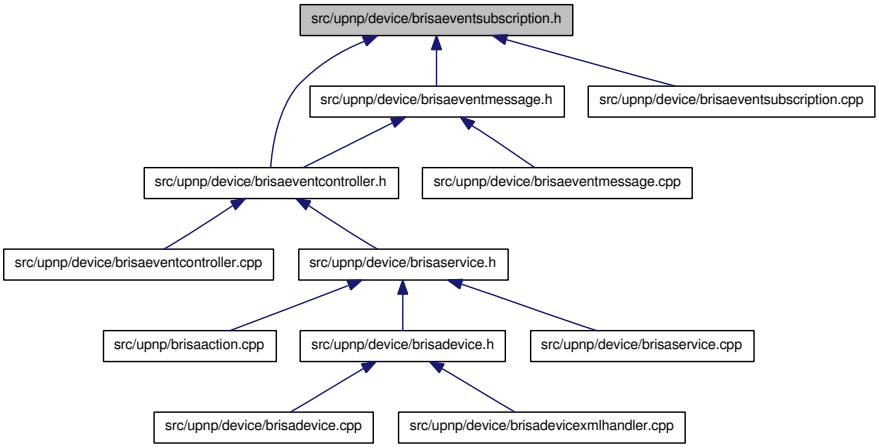
7.44 src/upnp/device/brisaeventsubscription.h File Reference

```
#include "brisaabstracteventsubscription.h"
#include "brisaglobal.h"
#include <BrisaCore>
#include <QDateTime>
#include <QList>
#include <QString>
#include <QHttpResponseHeader>
#include <QObject>
```

Include dependency graph for brisaeventsubscription.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaEventSubscription

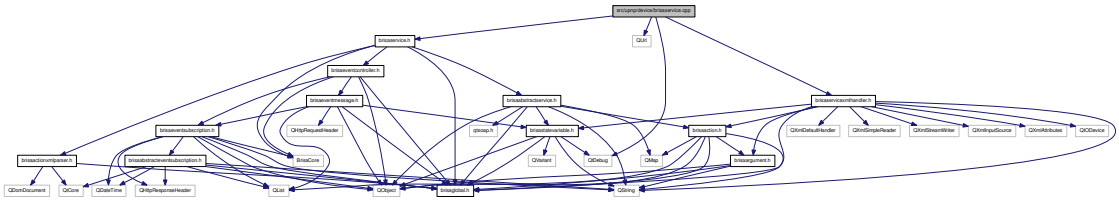
Namespaces

- namespace BrisaUpnp

7.45 src/upnp/device/brisaservice.cpp File Reference

```
#include <QtDebug>
#include <QUrl>
#include "brisaservice.h"
#include "brisaservicexmlhandler.h"
```

Include dependency graph for brisaservice.cpp:



Defines

- #define SOAP_ERROR_TEMPLATE

7.45.1 Define Documentation

7.45.1.1 #define SOAP_ERROR_TEMPLATE

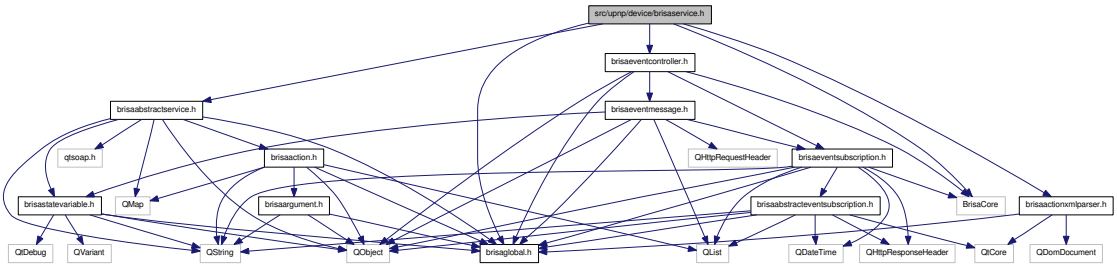
Value:

```
"<?xml version=\"1.0\"  encoding=\"utf-8\"?>\r\n"                    \
                            "<s:Envelope xmlns:s=\"http://schemas.xmlsoap.org/soa
      p/envelope/\"" \
                            "s:encodingStyle=\"http://schemas.xmlsoap.org/soap/en
      coding/\">\r\n"\
                            "<s:Body>\r\n"
                      \
                            "<s:Fault>\r\n"
                      \
                            "<faultcode>s:Client</faultcode>\r\n"
                      \
                            "<faultstring>UPnPError</faultstring>\r\n"
                      \
                            "<detail>\r\n"
                      \
                            "<UPnPError xmlns=\"urn:schemas-upnp-org:control-1-0\
      ">\r\n"         \
                            "<errorCode>%1</errorCode>\r\n"
                      \
                            "<errorDescription>%2</errorDescription>\r\n"
                      \
                            "</UPnPError>\r\n"
                      \
                            "</detail>\r\n"
                      \
                            "</s:Fault>\r\n"
                      \
                            "</s:Body>\r\n"
                      \
                            "</s:Envelope>\r\n"
```

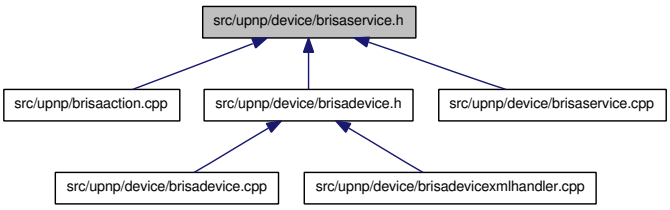
7.46 src/upnp/device/brisaservice.h File Reference

```
#include "brisaabstractservice.h"
#include "brisaglobal.h"
#include "brisaeventcontroller.h"
#include "brisaactionxmlparser.h"
#include <BrisaCore>
```

Include dependency graph for brisaservice.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaService

  UPnP service abstraction.

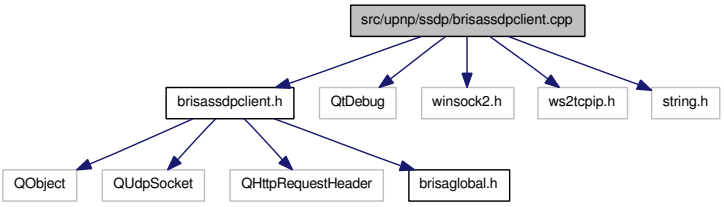
Namespaces

- namespace BrisaUpnp

7.47 src/upnp/ssdp/brisassdpclient.cpp File Reference

```
#include "brisassdpclient.h"
#include <QtDebug>
#include <winsock2.h>
#include <ws2tcpip.h>
#include <string.h>
```

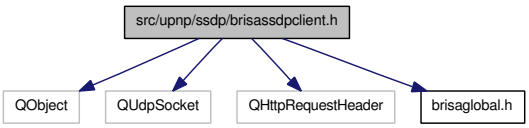
Include dependency graph for brisassdpclient.cpp:



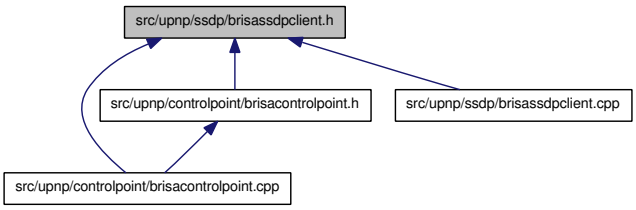
7.48 src/upnp/ssdp/brisassdpclient.h File Reference

```
#include <QObject>
#include <QUdpSocket>
#include <QHttpRequestHeader>
#include "brisaglobal.h"
```

Include dependency graph for brisassdpclient.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaSSDPClient

  SSDP stack implementantion for UPnP control points.

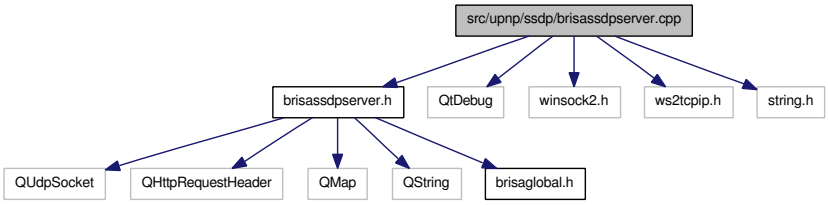
Namespaces

- namespace BrisaUpnp

7.49 src/upnp/ssdp/brisassdpserver.cpp File Reference

```
#include "brisassdpserver.h"
#include <QtDebug>
#include <winsock2.h>
#include <ws2tcpip.h>
#include <string.h>
```

Include dependency graph for brisassdpserver.cpp:



Defines

- #define UPNP_ALIVE_MESSAGE
- #define UPNP_BYEBYE_MESSAGE
- #define UPNP_MSEARCH_RESPONSE

7.49.1 Define Documentation

7.49.1.1 #define UPNP_ALIVE_MESSAGE

Value:

```
"NOTIFY * HTTP/1.1\r\n"          \
                          "HOST: 239.255.255.250:1900\r\n" \
                          "CACHE-CONTROL: max-age=%1\r\n"  \
                          "LOCATION: %2\r\n"               \
                          "NT: %3\r\n"                     \
                          "NTS: ssdp:alive\r\n"            \
                          "SERVER: %4\r\n"                 \
                          "USN: %5\r\n"                    \
                          "\r\n"
```

Referenced by BrisaUpnp::BrisaSSDPServer::doNotify().

7.49.1.2 #define UPNP_BYEBYE_MESSAGE

Value:

```
"NOTIFY * HTTP/1.1\r\n"          \
                           "HOST: 239.255.255.250:1900\r\n" \
                           "NT: %1\r\n"                     \
                           "NTS: ssdp:byebye\r\n"           \
                           "USN: %2\r\n"                    \
                           "\r\n"
```

Referenced by BrisaUpnp::BrisaSSDPServer::doByeBye().

7.49.1.3 #define UPNP_MSEARCH_RESPONSE

Value:

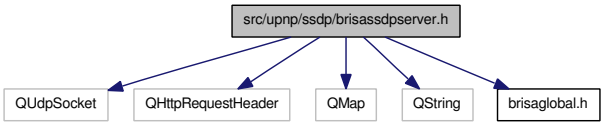
```
"HTTP/1.1 200 OK\r\n"             \
                                "CACHE-CONTROL: max-age = %1\r\n" \
                                "DATE: %2\r\n"                    \
                                "EXT: \r\n"                       \
                                "LOCATION: %3\r\n"                \
                                "SERVER: %4\r\n"                  \
                                "ST: %5\r\n"                      \
                                "USN: %6\r\n"                     \
                                "\r\n"
```

Referenced by BrisaUpnp::BrisaSSDPServer::respondMSearch().

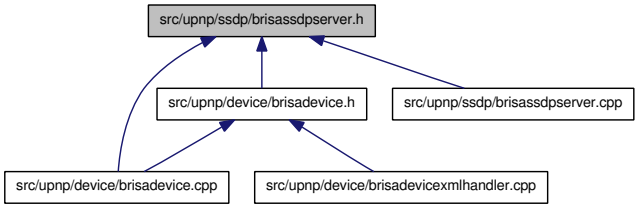
7.50 src/upnp/ssdp/brisassdpserver.h File Reference

```
#include <QUdpSocket>
#include <QHttpRequestHeader>
#include <QMap>
#include <QString>
#include "brisaglobal.h"
```

Include dependency graph for brisassdpserver.h:



This graph shows which files directly or indirectly include this file:



Classes

- class BrisaUpnp::BrisaSSDPServer

  SSDP stack implementation for UPnP devices.

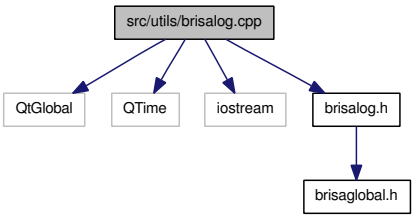
Namespaces

- namespace BrisaUpnp

7.51 src/utils/brisalog.cpp File Reference

```
#include <QtGlobal>
#include <QTime>
#include <iostream>
#include "brisalog.h"
```

Include dependency graph for brisalog.cpp:



Defines

- #define COLOR_DEBUG "\033[32;1m"
- #define COLOR_WARN "\033[33;1m"
- #define COLOR_CRITICAL "\033[31;1m"
- #define COLOR_FATAL "\033[33;1m"
- #define COLOR_RESET "\033[0m"
- #define LOG_WRITE(OUTPUT, COLOR, LEVEL, MSG)

Functions

- static void brisaMessageWritter (QtMsgType type, const char *msg)
- void brisaLogInitialize (void)

7.51.1 Define Documentation

7.51.1.1 #define COLOR_CRITICAL "\033[31;1m"

Referenced by brisaMessageWritter().

7.51.1.2 #define COLOR_DEBUG "\033[32;1m"

Referenced by brisaMessageWritter().

7.51.1.3 #define COLOR_FATAL "\033[33;1m"

Referenced by brisaMessageWritter().

7.51.1.4 #define COLOR_RESET "\033[0m"

7.51.1.5 #define COLOR_WARN "\033[33;1m"

Referenced by brisaMessageWritter().

7.51.1.6 #define LOG_WRITE(OUTPUT, COLOR, LEVEL, MSG)

Value:

```
OUTPUT << COLOR << \
                        QTime::currentTime().toString("hhmmsszzz").toStdString()
      << \
                        " " LEVEL " " << COLOR_RESET << MSG << "\n"
```

Referenced by brisaMessageWritter().

7.51.2 Function Documentation

7.51.2.1 void brisaLogInitialize (void)

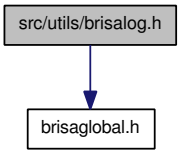
7.51.2.2 static void brisaMessageWritter (QtMsgType *type*, const char * *msg*) [static]

Referenced by brisaLogInitialize().

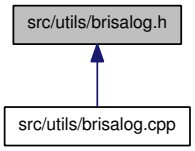
7.52 src/utils/brisalog.h File Reference

```
#include "brisaglobal.h"
```

Include dependency graph for brisalog.h:



This graph shows which files directly or indirectly include this file:



Functions

- BRISA_UTILS_EXPORT void brisaLogInitialize (void)

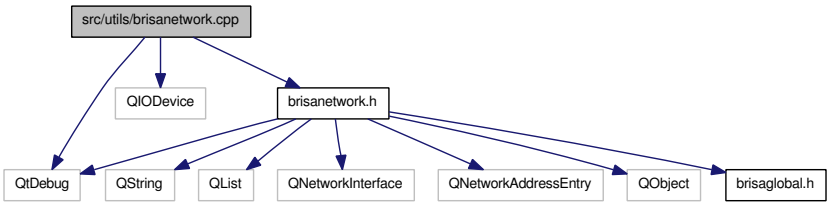
7.52.1 Function Documentation

7.52.1.1 BRISA_UTILS_EXPORT void brisaLogInitialize (void)

7.53 src/utils/brisanetwork.cpp File Reference

```
#include <QtDebug>
#include <QIODevice>
#include "brisanetwork.h"
```

Include dependency graph for brisanetwork.cpp:



Functions

- QString getIp (QString networkInterface)
- quint16 getPort ()

7.53.1 Function Documentation

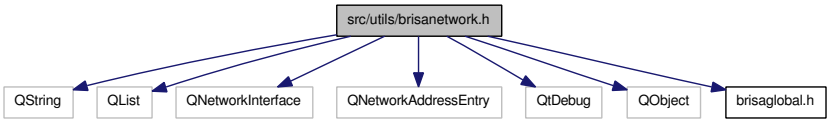
7.53.1.1 QString getIp (QString *networkInterface*)

7.53.1.2 quint16 getPort ()

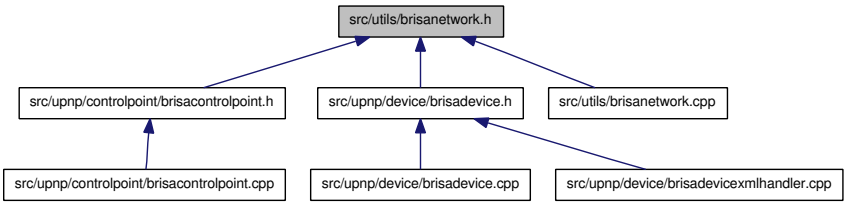
7.54 src/utils/brisanetwork.h File Reference

```
#include <QString>
#include <QList>
#include <QNetworkInterface>
#include <QNetworkAddressEntry>
#include <QtDebug>
#include <QObject>
#include "brisaglobal.h"
```

Include dependency graph for brisanetwork.h:



This graph shows which files directly or indirectly include this file:



Functions

- BRISA_UTILS_EXPORT QString getIp (QString networkInterface)
- BRISA_UTILS_EXPORT quint16 getPort ()

7.54.1 Function Documentation

7.54.1.1 BRISA_UTILS_EXPORT QString getIp (QString *networkInterface*)

7.54.1.2 BRISA_UTILS_EXPORT quint16 getPort ()

Index