Hosting Environment (Daemon) Chain Components

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Chapter 1

SRMServerV1 Definitions

Element "http://www.themindelectric.com/wrappers/":Integer of type xs:int. Note: use wsdl2h option -g to generate this global element declaration. Element "http://www.themindelectric.com/wrappers/":Long of type xs:long. Note: use wsdl2h option -g to generate this global element declaration. Element "http://www.themindelectric.com/wrappers/":Boolean of type xs:boolean. Note: use wsdl2h option -g to generate this global element declaration.

1.1 Bindings

- **Binding "ISRM"** (p. 3)

Chapter 2

Binding "ISRM"

2.1 Service Documentation "SRMServerV1"

diskCacheV111.srm.server.SRMServerV1 web service

2.2 Operations of Binding "ISRM"

- **SRMv1Meth__put** (p. 95)
- **SRMv1Meth__get** (p. 91)
- **SRMv1Meth__copy** (p. 90)
- **SRMv1Meth__ping** (p. 95)
- **SRMv1Meth__pin** (p. 94)
- **SRMv1Meth__unPin** (p. 96)
- **SRMv1Meth__setFileStatus** (p. 96)
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- **SRMv1Meth__advisoryDelete** (p. 90)
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2.3 Endpoints of Binding "ISRM"

- `http://131.225.13.36:24333/srm/managerv1`

Note: use wsdl2h option -N to change the service binding prefix name

Chapter 3

Binding "srmSoapBinding"

3.1 Port Documentation "srm"

the following location of the service is specific to the particular deployment and is not part of the specification

3.2 Operations of Binding "srmSoapBinding"

- **SRMv2__srmReserveSpace** (p. 171)
- **SRMv2__srmStatusOfReserveSpaceRequest** (p. 197)
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- **SRMv2__srmMkdir** (p. 149)
- **SRMv2__srmRmdir** (p. 176)
- **SRMv2__srmRm** (p. 176)

- **SRMv2__srmLs** (p. 146)
- **SRMv2__srmStatusOfLsRequest** (p. 192)
- **SRMv2__srmMv** (p. 151)
- **SRMv2__srmPrepareToGet** (p. 155)
- **SRMv2__srmStatusOfGetRequest** (p. 190)
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- **SRMv2__srmStatusOfCopyRequest** (p. 188)
- **SRMv2__srmReleaseFiles** (p. 167)
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- **SRMv2__srmGetTransferProtocols** (p. 145)
- **SRMv2__srmPing** (p. 153)

3.3 Endpoints of Binding "srmSoapBinding"

- `https://localhost:8443/ogsa/services/srm`

Note: use wsdl2h option -N to change the service binding prefix name

Chapter 4

Namespace Index

4.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

ArcSec (**ArcRequest** (p. 38), Parsing the specified Arc request format) 29

Chapter 5

Data Structure Index

5.1 Class Hierarchy

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Data Structure Index

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Chapter 7

Namespace Documentation

7.1 ArcSec Namespace Reference

ArcRequest (p. 38), Parsing the specified Arc request format.

Data Structures

- class **DelegationCollector**
- class **DelegationSecAttr**
- class **DelegationMultiSecAttr**
- class **AllowPDP**

  This PDP always return true (allow).

- class **ArcAuthZ**

  Tests message against list of PDPs.

- class **ArcAlgFactory**

  Algorithm factory class for Arc.

- class **ArcAttributeFactory**

  Attribute factory class for Arc specified attributes.

- class **ArcAttributeProxy**

  Arc specific AttributeProxy class.

- class **ArcRequestTuple**

  RequestTuple, container which includes the.

- class **ArcEvaluationCtx**

  EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc.

- class **ArcEvaluator**

  Execute the policy evaluation, based on the request and policy.

- class **ArcFnFactory**

  Function factory class for Arc specified attributes.

- class **ArcPDP**

  ArcPDP (p. *37) - PDP which can handle the Arc specific request and policy schema.*

- class **ArcPolicy**

  ArcPolicy (p. *38) class to parse and operate Arc specific <Policy> node.*

- class **ArcRequest**
- class **ArcRequestItem**

  Container, <Subjects, Actions, Objects, Contexts> tuple.

- class **ArcRule**

  ArcRule (p. *39) class to parse Arc specific <Rule> node.*

- class **DelegationPDP**
- class **DelegationSH**
- class **DenyPDP**

  This PDP always returns false (deny).

- class **GACLEvaluator**
- class **GACLPDP**
- class **GACLPolicy**
- class **GACLRequest**
- class **PDPServiceInvoker**

  PDPServiceInvoker (p. *66) - client which will invoke pdpservice.*

- class **SAML2SSO_AssertionConsumerSH**

  Implement the funcionality of the Service Provider in SAML2 SSO profile.

- class **SAMLTokenSH**

  Adds WS-Security SAML Token into SOAP Header.

- class **SimpleListPDP**

  Tests X509 subject against list of subjects in file.

- class **UsernameTokenSH**

  Adds WS-Security Username Token into SOAP Header.

- class **X509TokenSH**

  Adds WS-Security X509 Token into SOAP Header.

- class **AttributeDesignator**
- class **AttributeSelector**
- class **XACMLAlgFactory**

  Algorithm factory class for XACML.

- class **XACMLApply**
- class **XACMLAttributeFactory**

Attribute factory class for XACML specified attributes.

- class **XACMLAttributeProxy**

  XACML specific AttributeProxy class.

- class **XACMLCondition**

  XACMLCondition *(p. 233) class to parse and operate XACML specific <Condition> node.*

- class **XACMLEvaluationCtx**

  EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc.

- class **XACMLEvaluator**

  Execute the policy evaluation, based on the request and policy.

- class **XACMLFnFactory**

  Function factory class for XACML specified attributes.

- class **XACMLPDP**

  XACMLPDP *(p. 235) - PDP which can handle the XACML specific request and policy schema.*

- class **XACMLPolicy**

  XACMLPolicy *(p. 235) class to parse and operate XACML specific <Policy> node.*

- class **XACMLRequest**
- class **XACMLRule**

  XACMLRule *(p. 236) class to parse XACML specific <Rule> node.*

- class **XACMLTargetMatch**
- class **XACMLTargetMatchGroup**
- class **XACMLTargetSection**
- class **XACMLTarget**

  XACMLTarget *(p. 237) class to parse and operate XACML specific <Target> node.*

Typedefs

- typedef std::pair< AttributeValue *, Function * > **Match**
- typedef std::list< **Match** > **AndList**
- typedef std::list< **AndList** > **OrList**

7.1.1 Detailed Description

ArcRequest (p. 38), Parsing the specified Arc request format. **XACMLRequest** (p. 236), Parsing the xacml request format.

7.1.2 Typedef Documentation

7.1.2.1 typedef std::list<Match> ArcSec::AndList

AndList - include items inside one <Subject> (or <Resource> <Action> <Condition>).

"And" relationship means the request should satisfy all of the items <Subject> <SubFraction type="X500DN">/O=Grid/OU=KnowARC/CN=XYZ</SubFraction> <SubFraction type="ShibName">urn:mace:shibboleth:examples</SubFraction> </Subject> "Or" relationship meand the request should satisfy any of the items <Subjects> <Subject type="X500DN">/O=Grid/OU=KnowARC/CN=ABC</Subject> <Subject type="VOMSAttribute">/vo.knowarc/usergroupA</Subject> <Subject> <SubFraction type="X500DN">/O=Grid/OU=KnowARC/CN=XYZ</SubFraction> <SubFraction type="ShibName">urn:mace:shibboleth:examples</SubFraction> </Subject> <GroupIdRef location="./subjectgroup.xml">subgrpexample1</GroupIdRef> </Subjects>

7.1.2.2 typedef std::pair<AttributeValue*, Function*> ArcSec::Match

Pair Match include the AttributeValue object in <Rule> and the Function which is used to handle the AttributeValue, default function is "Equal", if some other function is used, it should be explicitly specified, e.g. Subject Type="string" Function="Match">/vo.knowarc/usergroupA</Subject> Subjects> example inside <Rule>: <Subjects> <Subject type="X500Name">/O=NorduGrid/OU=UIO/CN=test</Subject> <Subject type="string">/vo.knowarc/usergroupA</Subject> <Subject> <SubFraction type="string">/O=Grid/OU=KnowARC/CN=XYZ</SubFraction> <SubFraction type="string">urn:mace:shibboleth:examples</SubFraction> </Subject> <GroupIdRef location="./subjectgroup.xml">subgrpexample1</GroupIdRef> </Subjects>

Chapter 8

Data Structure Documentation

8.1 ArcSec::AllowPDP Class Reference

This PDP always return true (allow).

`#include <AllowPDP.h>`

8.1.1 Detailed Description

This PDP always return true (allow).

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

- AllowPDP.h

8.2 ArcSec::ArcAlgFactory Class Reference

Algorithm factory class for Arc.

`#include <ArcAlgFactory.h>`

Public Member Functions

- virtual CombiningAlg * **createAlg** (const std::string &type)

8.2.1 Detailed Description

Algorithm factory class for Arc.

8.2.2 Member Function Documentation

8.2.2.1 virtual CombiningAlg* ArcSec::ArcAlgFactory::createAlg (const std::string & *type*) [virtual]

return a Alg object according to the "CombiningAlg" attribute in the <Policy> node; The **ArcAlgFactory** (p. 33) itself will release the Alg objects

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

- ArcAlgFactory.h

8.3 ArcSec::ArcAttributeFactory Class Reference

Attribute factory class for Arc specified attributes.

`#include <ArcAttributeFactory.h>`

Public Member Functions

- virtual AttributeValue * **createValue** (const Arc::XMLNode &node, const std::string &type)

8.3.1 Detailed Description

Attribute factory class for Arc specified attributes.

8.3.2 Member Function Documentation

8.3.2.1 virtual AttributeValue* ArcSec::ArcAttributeFactory::createValue (const Arc::XMLNode & *node*, const std::string & *type*) [virtual]

creat a AttributeValue according to the value in the XML node and the type; It should be the caller to release the AttributeValue Object

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

- ArcAttributeFactory.h

8.4 ArcSec::ArcAttributeProxy< TheAttribute > Class Template Reference

Arc specific AttributeProxy class.

`#include <ArcAttributeProxy.h>`

Public Member Functions

- virtual AttributeValue * **getAttribute** (const Arc::XMLNode &node)

8.4.1 Detailed Description

template<class TheAttribute> class ArcSec::ArcAttributeProxy< TheAttribute >

Arc specific AttributeProxy class.

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

- ArcAttributeProxy.h

8.5 ArcSec::ArcAuthZ Class Reference

Tests message against list of PDPs.

`#include <ArcAuthZ.h>`

Data Structures

- class **PDPDesc**

Public Member Functions

- virtual bool **Handle** (Arc::Message *msg) const

Protected Member Functions

- bool **MakePDPs** (Arc::XMLNode cfg)

8.5.1 Detailed Description

Tests message against list of PDPs. This class implements SecHandler interface. It's **Handle()** (p. 35) method runs provided Message instance against all PDPs specified in configuration. If any of PDPs returns positive result **Handle()** (p. 35) return true, otherwise false. This class is the main entry for configuring authorization, and could include different PDP configured inside.

8.5.2 Member Function Documentation

8.5.2.1 virtual bool ArcSec::ArcAuthZ::Handle (Arc::Message * *msg*) const [virtual]

Get authorization decision

8.5.2.2 bool ArcSec::ArcAuthZ::MakePDPs (Arc::XMLNode *cfg*) [protected]

Create PDP according to conf info

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

- ArcAuthZ.h

8.6 ArcSec::ArcEvaluationCtx Class Reference

EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc.

`#include <ArcEvaluationCtx.h>`

Public Member Functions

- **ArcEvaluationCtx** (Request *request)
- virtual void **split** ()

8.6.1 Detailed Description

EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc.

8.6.2 Constructor & Destructor Documentation

8.6.2.1 ArcSec::ArcEvaluationCtx::ArcEvaluationCtx (Request * *request*)

Construct a new EvaluationCtx based on the given request

8.6.3 Member Function Documentation

8.6.3.1 virtual void ArcSec::ArcEvaluationCtx::split ( ) [virtual]

Convert/split one RequestItem (one tuple <SubList, ResList, ActList, CtxList>) into a few <Subject, Resource, Action, Context> tuples. The purpose is for evaluation. The evaluator will evaluate each RequestTuple one by one, not the RequestItem because it includes some independent <Subject, Resource, Action, Context>s and the evaluator should deal with them independently.

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

- ArcEvaluationCtx.h

8.7 ArcSec::ArcEvaluator Class Reference

Execute the policy evaluation, based on the request and policy.

`#include <ArcEvaluator.h>`

Public Member Functions

- virtual Response * **evaluate** (Request *request)

8.7.1 Detailed Description

Execute the policy evaluation, based on the request and policy.

8.7.2 Member Function Documentation

8.7.2.1 virtual Response* ArcSec::ArcEvaluator::evaluate (Request * *request*) [virtual]

Evaluate the request based on the policy information inside PolicyStore

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

- ArcEvaluator.h

8.8 ArcSec::ArcFnFactory Class Reference

Function factory class for Arc specified attributes.

`#include <ArcFnFactory.h>`

Public Member Functions

- virtual Function * **createFn** (const std::string &type)

8.8.1 Detailed Description

Function factory class for Arc specified attributes.

8.8.2 Member Function Documentation

8.8.2.1 virtual Function* ArcSec::ArcFnFactory::createFn (const std::string & *type*) [virtual]

return a Function object according to the "Function" attribute in the XML node; The **ArcFnFactory** (p. 37) itself will release the Function objects

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

- ArcFnFactory.h

8.9 ArcSec::ArcPDP Class Reference

ArcPDP (p. 37) - PDP which can handle the Arc specific request and policy schema.

`#include <ArcPDP.h>`

8.9.1 Detailed Description

ArcPDP (p. 37) - PDP which can handle the Arc specific request and policy schema.

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

- ArcPDP.h

8.10 ArcSec::ArcPolicy Class Reference

ArcPolicy (p. 38) class to parse and operate Arc specific <Policy> node.

`#include <ArcPolicy.h>`

Public Member Functions

- **ArcPolicy** (void)
- **ArcPolicy** (const Arc::XMLNode node)
- **ArcPolicy** (const Arc::XMLNode node, EvaluatorContext *ctx)
- virtual void **make_policy** ()

8.10.1 Detailed Description

ArcPolicy (p. 38) class to parse and operate Arc specific <Policy> node.

8.10.2 Constructor & Destructor Documentation

8.10.2.1 ArcSec::ArcPolicy::ArcPolicy (void)

Constructor

8.10.2.2 ArcSec::ArcPolicy::ArcPolicy (const Arc::XMLNode *node*)

Constructor

8.10.2.3 ArcSec::ArcPolicy::ArcPolicy (const Arc::XMLNode *node*, EvaluatorContext * *ctx*)

Constructor

8.10.3 Member Function Documentation

8.10.3.1 virtual void ArcSec::ArcPolicy::make_policy ( ) [virtual]

Parse XMLNode, and construct the low-level Rule object

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

- ArcPolicy.h

8.11 ArcSec::ArcRequest Class Reference

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

- ArcRequest.h

8.12 ArcSec::ArcRequestItem Class Reference

Container, <Subjects, Actions, Objects, Contexts> tuple.

`#include <ArcRequestItem.h>`

8.12.1 Detailed Description

Container, <Subjects, Actions, Objects, Contexts> tuple. Specified **ArcRequestItem** (p. 39) which can parse Arc request formate

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

- ArcRequestItem.h

8.13 ArcSec::ArcRequestTuple Class Reference

RequestTuple, container which includes the.

`#include <ArcEvaluationCtx.h>`

8.13.1 Detailed Description

RequestTuple, container which includes the.

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

- ArcEvaluationCtx.h

8.14 ArcSec::ArcRule Class Reference

ArcRule (p. 39) class to parse Arc specific <Rule> node.

`#include <ArcRule.h>`

8.14.1 Detailed Description

ArcRule (p. 39) class to parse Arc specific <Rule> node.

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

- ArcRule.h

8.15 ArrayOfboolean Class Reference

`#include <srm1_soap.h>`

Data Fields

- bool * **__ptr**
- int **__size**
- struct **soap** * **soap**

8.15.1 Detailed Description

"http://www.themindelectric.com/package/":**ArrayOfboolean** (p. 39) is a complexType with complexContent restriction of SOAP-ENC:Array. SOAP encoded array of xs:boolean

8.15.2 Field Documentation

8.15.2.1 struct soap * ArrayOfboolean::soap

Offset for partially transmitted arrays (uncomment only when required).

A handle to the soap struct that manages this instance (automatically set)

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

- srm1_soap.h
- srm1_soapStub.h

8.16 ArrayOfFileMetaData Class Reference

`#include <srm1_soap.h>`

Data Fields

- **SRMv1Type__FileMetaData** ** **__ptr**
- int **__size**
- struct **soap** * **soap**

8.16.1 Detailed Description

"http://www.themindelectric.com/package/diskCacheV111.srm/":**ArrayOfFileMetaData** (p. 40) is a complexType with complexContent restriction of SOAP-ENC:Array. SOAP encoded array of "http://www.themindelectric.com/package/diskCacheV111.srm/":FileMetaData

8.16.2 Field Documentation

8.16.2.1 struct soap * ArrayOfFileMetaData::soap

Offset for partially transmitted arrays (uncomment only when required).

A handle to the soap struct that manages this instance (automatically set)

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

- srm1_soap.h
- srm1_soapStub.h

8.17 ArrayOflong Class Reference

`#include <srm1_soap.h>`

Data Fields

- LONG64 * **__ptr**
- int **__size**
- struct **soap** * **soap**

8.17.1 Detailed Description

"http://www.themindelectric.com/package/":**ArrayOflong** (p. 41) is a complexType with complexContent restriction of SOAP-ENC:Array. SOAP encoded array of xs:long

8.17.2 Field Documentation

8.17.2.1 struct soap * ArrayOflong::soap

Offset for partially transmitted arrays (uncomment only when required).

A handle to the soap struct that manages this instance (automatically set)

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

- srm1_soap.h
- srm1_soapStub.h

8.18 ArrayOfRequestFileStatus Class Reference

`#include <srm1_soap.h>`

Data Fields

- **SRMv1Type__RequestFileStatus** ** **__ptr**
- int **__size**
- struct **soap** * **soap**

8.18.1 Detailed Description

"http://www.themindelectric.com/package/diskCacheV111.srm/":**ArrayOfRequestFileStatus** (p. 41) is a complexType with complexContent restriction of SOAP-ENC:Array. SOAP encoded array of "http://www.themindelectric.com/package/diskCacheV111.srm/":RequestFileStatus

8.18.2 Field Documentation

8.18.2.1 struct soap * ArrayOfRequestFileStatus::soap

Offset for partially transmitted arrays (uncomment only when required).

A handle to the soap struct that manages this instance (automatically set)

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

- srm1_soap.h
- srm1_soapStub.h

8.19 ArrayOfstring Class Reference

`#include <srm1_soap.h>`

Data Fields

- char ** **__ptr**
- int **__size**
- struct **soap** * **soap**

8.19.1 Detailed Description

"http://www.themindelectric.com/package/java.lang/":**ArrayOfstring** (p. 42) is a complexType with complexContent restriction of SOAP-ENC:Array. SOAP encoded array of xs:string

8.19.2 Field Documentation

8.19.2.1 struct soap * ArrayOfstring::soap

Offset for partially transmitted arrays (uncomment only when required).

A handle to the soap struct that manages this instance (automatically set)

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

- srm1_soap.h
- srm1_soapStub.h

8.20 ArcSec::AttributeDesignator Class Reference

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

- AttributeDesignator.h

8.21 ArcSec::AttributeSelector Class Reference

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

- AttributeSelector.h

8.22 Arc::ConfigTLSMCC Class Reference

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

- ConfigTLSMCC.h

8.23 Arc::DataPointARC Class Reference

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

- DataPointARC.h

8.24 Arc::DataPointFile Class Reference

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

- DataPointFile.h

8.25 Arc::DataPointGridFTP Class Reference

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

- DataPointGridFTP.h

8.26 Arc::DataPointHTTP Class Reference

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

- DataPointHTTP.h

8.27 Arc::DataPointLDAP Class Reference

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

- DataPointLDAP.h

8.28 Arc::DataPointLFC Class Reference

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

- DataPointLFC.h

8.29 Arc::DataPointRLS Class Reference

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

- DataPointRLS.h

8.30 Arc::DataPointSRM Class Reference

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

- DataPointSRM.h

8.31 ArcSec::DelegationCollector Class Reference

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

- DelegationCollector.h

8.32 ArcSec::DelegationMultiSecAttr Class Reference

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

- DelegationSecAttr.h

8.33 ArcSec::DelegationPDP Class Reference

`#include <DelegationPDP.h>`

8.33.1 Detailed Description

DeleagtionPDP - PDP which can handle the Arc specific request and policy provided as identity delegation policy.

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

- DelegationPDP.h

8.34 ArcSec::DelegationSecAttr Class Reference

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

- DelegationSecAttr.h

8.35 ArcSec::DelegationSH Class Reference

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

- DelegationSH.h

8.36 ArcSec::DenyPDP Class Reference

This PDP always returns false (deny).

`#include <DenyPDP.h>`

8.36.1 Detailed Description

This PDP always returns false (deny).

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

- DenyPDP.h

8.37 ArcSec::GACLEvaluator Class Reference

Public Member Functions

- virtual Response * **evaluate** (Request *request)

8.37.1 Member Function Documentation

8.37.1.1 virtual Response* ArcSec::GACLEvaluator::evaluate (Request * *request*) [virtual]

Evaluate the request based on the policy information inside PolicyStore

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

- GACLEvaluator.h

8.38 ArcSec::GACLPDP Class Reference

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

- GACLPDP.h

8.39 ArcSec::GACLPolicy Class Reference

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

- GACLPolicy.h

8.40 ArcSec::GACLRequest Class Reference

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

- GACLRequest.h

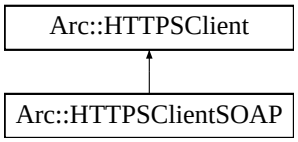
8.41 Arc::HTTPResponseHeader Class Reference

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

- HTTPSClient.h

8.42 Arc::HTTPSClient Class Reference

Inheritance diagram for Arc::HTTPSClient:



Public Member Functions

- int **connect** (void)

8.42.1 Member Function Documentation

8.42.1.1 int Arc::HTTPSClient::connect (void)

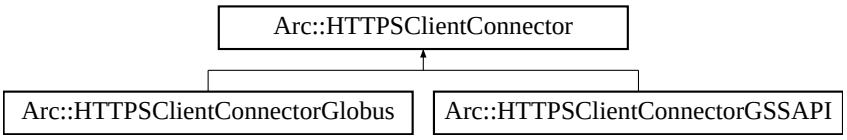
Returns 0 on success, 1 on timeout and -1 on other error

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

- HTTPSClient.h

8.43 Arc::HTTPSClientConnector Class Reference

Inheritance diagram for Arc::HTTPSClientConnector:



Protected Member Functions

- virtual bool **connect** (bool &timedout)
- virtual bool **disconnect** (void)
- virtual bool **clear** (void)
- virtual bool **read** (char *buf=NULL, unsigned int *size=NULL)
- virtual bool **write** (const char *buf=NULL, unsigned int size=0)
- virtual bool **transfer** (bool &read, bool &write, int timeout)
- virtual bool **eofread** (void)
- virtual bool **eofwrite** (void)

Static Protected Attributes

- static SimpleCondition * **connect_lock**
- static Logger **logger**

8.43.1 Member Function Documentation

8.43.1.1 virtual bool Arc::HTTPSClientConnector::transfer (bool & *read,* bool & *write,* int *timeout*) [protected, virtual]

Transfer data set by **read()** (p. 47) and **write()** (p. 47). Reset set buffers if operation complete.

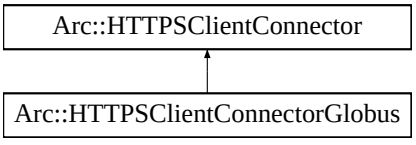
Reimplemented in **Arc::HTTPSClientConnectorGlobus** (p. 48), and **Arc::HTTPSClientConnectorGSSAPI** (p. 49).

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

- HTTPSClient.h

8.44 Arc::HTTPSClientConnectorGlobus Class Reference

Inheritance diagram for Arc::HTTPSClientConnectorGlobus:



Protected Member Functions

- virtual bool **connect** (bool &timedout)
- virtual bool **disconnect** (void)
- virtual bool **read** (char *buf=NULL, unsigned int *size=NULL)
- virtual bool **write** (const char *buf=NULL, unsigned int size=0)
- virtual bool **clear** (void)
- virtual bool **transfer** (bool &read, bool &write, int timeout)
- virtual bool **eofread** (void)
- virtual bool **eofwrite** (void)

8.44.1 Member Function Documentation

8.44.1.1 virtual bool Arc::HTTPSClientConnectorGlobus::transfer (bool & *read*, bool & *write*, int *timeout*) [protected, virtual]

Transfer data set by **read()** (p. 48) and **write()** (p. 48). Reset set buffers if operation complete.

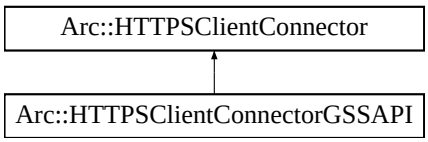
Reimplemented from **Arc::HTTPSClientConnector** (p. 47).

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

- HTTPSClient.h

8.45 Arc::HTTPSClientConnectorGSSAPI Class Reference

Inheritance diagram for Arc::HTTPSClientConnectorGSSAPI:



Protected Member Functions

- virtual bool **connect** (bool &timedout)
- virtual bool **disconnect** (void)
- virtual bool **clear** (void)
- virtual bool **read** (char *buf=NULL, unsigned int *size=NULL)
- virtual bool **write** (const char *buf=NULL, unsigned int size=0)
- virtual bool **transfer** (bool &read, bool &write, int timeout)
- virtual bool **eofread** (void)
- virtual bool **eofwrite** (void)

8.45.1 Member Function Documentation

8.45.1.1 virtual bool Arc::HTTPSClientConnectorGSSAPI::transfer (bool & *read*, bool & *write*, int *timeout*) [protected, virtual]

Transfer data set by **read()** (p. 48) and **write()** (p. 48). Reset set buffers if operation complete.

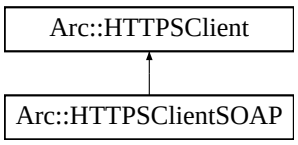
Reimplemented from **Arc::HTTPSClientConnector** (p. 47).

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

- HTTPSClient.h

8.46 Arc::HTTPSClientSOAP Class Reference

Inheritance diagram for Arc::HTTPSClientSOAP:



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

- HTTPSClient.h

8.47 ISRM Class Reference

Public Member Functions

- **ISRM** ()
- virtual ~**ISRM** ()
- virtual int **SRMv1Meth__put** (**ArrayOfstring** *_arg0, **ArrayOfstring** *_arg1, **ArrayOflong** *_arg2, **ArrayOfboolean** *_arg3, **ArrayOfstring** *_arg4, struct **SRMv1Meth__putResponse** &_param_1)
- virtual int **SRMv1Meth__get** (**ArrayOfstring** *_arg0, **ArrayOfstring** *_arg1, struct **SRMv1Meth__getResponse** &_param_2)
- virtual int **SRMv1Meth__copy** (**ArrayOfstring** *_arg0, **ArrayOfstring** *_arg1, **ArrayOfboolean** *_arg2, struct **SRMv1Meth__copyResponse** &_param_3)
- virtual int **SRMv1Meth__ping** (bool &_Result)
- virtual int **SRMv1Meth__pin** (**ArrayOfstring** *_arg0, struct **SRMv1Meth__pinResponse** &_param_4)
- virtual int **SRMv1Meth__unPin** (**ArrayOfstring** *_arg0, int _arg1, struct **SRMv1Meth__unPinResponse** &_param_5)
- virtual int **SRMv1Meth__setFileStatus** (int _arg0, int _arg1, char *_arg2, struct **SRMv1Meth__setFileStatusResponse** &_param_6)
- virtual int **SRMv1Meth__getRequestStatus** (int _arg0, struct **SRMv1Meth__getRequestStatusResponse** &_param_7)

- virtual int **SRMv1Meth__getFileMetaData** (**ArrayOfstring** *_arg0, struct **SRMv1Meth__getFileMetaDataResponse** &_param_8)
- virtual int **SRMv1Meth__mkPermanent** (**ArrayOfstring** *_arg0, struct **SRMv1Meth__mkPermanentResponse** &_param_9)
- virtual int **SRMv1Meth__getEstGetTime** (**ArrayOfstring** *_arg0, **ArrayOfstring** *_arg1, struct **SRMv1Meth__getEstGetTimeResponse** &_param_10)
- virtual int **SRMv1Meth__getEstPutTime** (**ArrayOfstring** *_arg0, **ArrayOfstring** *_arg1, **ArrayOflong** *_arg2, **ArrayOfboolean** *_arg3, **ArrayOfstring** *_arg4, struct **SRMv1Meth__getEstPutTimeResponse** &_param_11)
- virtual int **SRMv1Meth__advisoryDelete** (**ArrayOfstring** *_arg0, struct **SRMv1Meth__advisoryDeleteResponse** &_param_12)
- virtual int **SRMv1Meth__getProtocols** (struct **SRMv1Meth__getProtocolsResponse** &_param_13)

Data Fields

- struct **soap** * **soap**
- const char * **endpoint**

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

- srm1_soapISRMProxy.h

8.48 ISRMService Class Reference

Public Member Functions

- virtual SOAP_SOCKET **bind** (const char *host, int port, int backlog)
- virtual SOAP_SOCKET **accept** ()
- virtual int **serve** ()

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

- srm1_soapISRMObject.h

8.49 Arc::LDAPQuery Class Reference

`#include <LDAPQuery.h>`

Public Member Functions

- **LDAPQuery** (const std::string &ldaphost, int ldapport, int timeout, bool anonymous=true, const std::string &usersn="")
- ~**LDAPQuery** ()
- bool **Query** (const std::string &base, const std::string &filter="(objectclass=*)", const std::list< std::string > &attributes=std::list< std::string >(), URL::Scope scope=URL::subtree)
- bool **Result** (ldap_callback callback, void *ref)

8.49.1 Detailed Description

LDAPQuery (p. 50) class; querying of LDAP servers.

8.49.2 Constructor & Destructor Documentation

8.49.2.1 Arc::LDAPQuery::LDAPQuery (const std::string & *ldaphost,* int *ldapport,* int *timeout,* bool *anonymous* = `true`, const std::string & *usersn* = `""`)

Constructs a new **LDAPQuery** (p. 50) object and sets connection options. The connection is first established when calling Query.

8.49.2.2 Arc::LDAPQuery::~LDAPQuery ( )

Destructor. Will disconnect from the ldapserver if still connected.

8.49.3 Member Function Documentation

8.49.3.1 bool Arc::LDAPQuery::Query (const std::string & *base,* const std::string & *filter* = `"(objectclass=*)"`, const std::list< std::string > & *attributes* = `std::list< std::string >()`, URL::Scope *scope* = `URL::subtree`)

Queries the ldap server.

8.49.3.2 bool Arc::LDAPQuery::Result (ldap_callback *callback,* void * *ref*)

Retrieves the result of the query from the ldap-server.

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

- LDAPQuery.h

8.50 Arc::Lister Class Reference

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

- Lister.h

8.51 Arc::MCC_GSI_Client Class Reference

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

- MCCGSI.h

8.52 Arc::MCC_GSI_Service Class Reference

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

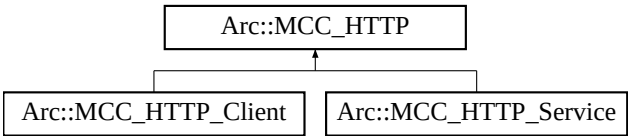
- MCCGSI.h

8.53 Arc::MCC_HTTP Class Reference

A base class for HTTP client and service MCCs.

`#include <MCCHTTP.h>`

Inheritance diagram for Arc::MCC_HTTP:



8.53.1 Detailed Description

A base class for HTTP client and service MCCs. This is a base class for HTTP client and service MCCs. It provides some common functionality for them, i.e. so far only a logger.

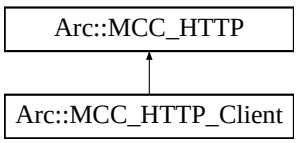
The documentation for this class was generated from the following file:

- MCCHTTP.h

8.54 Arc::MCC_HTTP_Client Class Reference

`#include <MCCHTTP.h>`

Inheritance diagram for Arc::MCC_HTTP_Client:



8.54.1 Detailed Description

This class is a client part of HTTP MCC. It accepts PayloadRawInterface payload and uses it as body to generate HTTP request. Request is passed to next MCC as PayloadRawInterface type of payload. Returned PayloadStreamInterface payload is parsed into HTTP response and it's body is passed back to calling MCC as PayloadRawInerface. Attributes of request/input message of type HTTP:name are translated into HTTP header with corresponding 'name's. Special attributes HTTP:METHOD and HTTP:ENDPOINT

specify method and URL in HTTP request. If not present meathod and URL are taken from configuration. In output/response message following attributes are present: HTTP:CODE - response code of HTTP HTTP:REASON - reason string of HTTP response HTTP:name - all 'name' attributes of HTTP header.

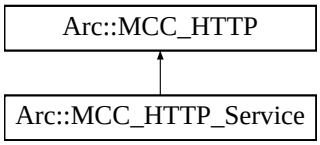
The documentation for this class was generated from the following file:

- MCCHTTP.h

8.55 Arc::MCC_HTTP_Service Class Reference

`#include <MCCHTTP.h>`

Inheritance diagram for Arc::MCC_HTTP_Service:



8.55.1 Detailed Description

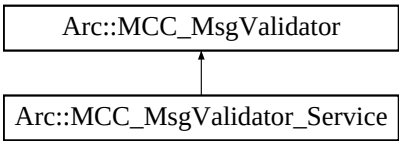
This class implements MCC to processes HTTP request. On input payload with PayloadStreamInterface is expected. HTTP message is read from stream ans it's body is converted into PayloadRaw and passed to next MCC. Returned payload of PayloadRawInterface type is treated as body part of returning **PayloadHTTP** (p. 59). Generated HTTP response is sent though stream passed in input payload. During processing of request/input message following attributes are generated: HTTP:METHOD - HTTP method e.g. GET, PUT, POST, etc. HTTP:ENDPOINT - URL taken from HTTP request ENDPOINT - global attribute equal to HTTP:ENDPOINT HTTP:RANGESTART - start of requested byte range HTTP:RANGEEND - end of requested byte range (inclusive) HTTP:name - all 'name' attributes of HTTP header. Attributes of response message of HTTP:name type are translated into HTTP header with corresponding 'name's.

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

- MCCHTTP.h

8.56 Arc::MCC_MsgValidator Class Reference

Inheritance diagram for Arc::MCC_MsgValidator:

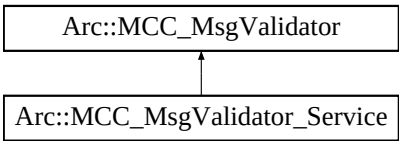


The documentation for this class was generated from the following file:

- MCCMsgValidator.h

8.57 Arc::MCC_MsgValidator_Service Class Reference

Inheritance diagram for Arc::MCC_MsgValidator_Service:



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

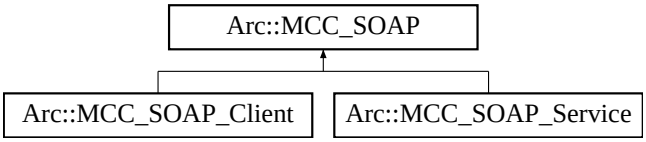
- MCCMsgValidator.h

8.58 Arc::MCC_SOAP Class Reference

A base class for SOAP client and service MCCs.

`#include <MCCSOAP.h>`

Inheritance diagram for Arc::MCC_SOAP:



8.58.1 Detailed Description

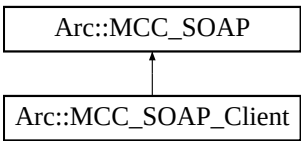
A base class for SOAP client and service MCCs. This is a base class for SOAP client and service MCCs. It provides some common functionality for them, i.e. so far only a logger.

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

- MCCSOAP.h

8.59 Arc::MCC_SOAP_Client Class Reference

Inheritance diagram for Arc::MCC_SOAP_Client:



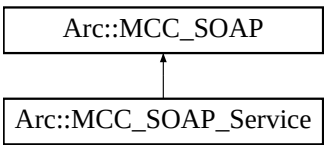
The documentation for this class was generated from the following file:

- MCCSOAP.h

8.60 Arc::MCC_SOAP_Service Class Reference

`#include <MCCSOAP.h>`

Inheritance diagram for Arc::MCC_SOAP_Service:



8.60.1 Detailed Description

This MCC parses SOAP message from input payload. On input payload with PayloadRawInterface is expected. It's converted into PayloadSOAP and passed next MCC. Returned PayloadSOAP is converted into PayloadRaw and returned to calling MCC.

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

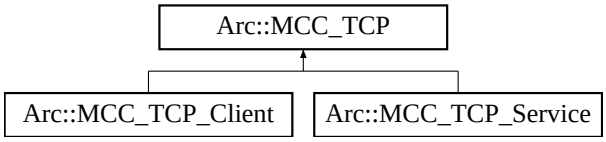
- MCCSOAP.h

8.61 Arc::MCC_TCP Class Reference

A base class for TCP client and service MCCs.

`#include <MCCTCP.h>`

Inheritance diagram for Arc::MCC_TCP:



8.61.1 Detailed Description

A base class for TCP client and service MCCs. This is a base class for TCP client and service MCCs. It provides some common functionality for them, i.e. so far only a logger.

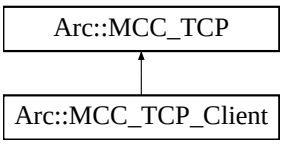
The documentation for this class was generated from the following file:

- MCCTCP.h

8.62 Arc::MCC_TCP_Client Class Reference

`#include <MCCTCP.h>`

Inheritance diagram for Arc::MCC_TCP_Client:



8.62.1 Detailed Description

This class is MCC implementing TCP client. Upon creation it connects to specified TCP post at specified host. process() method accepts PayloadRawInterface type of payload. Content of payload is sent over TCP socket. It returns PayloadStreamInterface payload for previous MCC to read response.

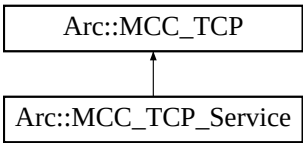
The documentation for this class was generated from the following file:

- MCCTCP.h

8.63 Arc::MCC_TCP_Service Class Reference

`#include <MCCTCP.h>`

Inheritance diagram for Arc::MCC_TCP_Service:



Data Structures

- class **mcc_tcp_exec_t**
- class **mcc_tcp_handle_t**

Public Member Functions

- **MCC_TCP_Service** (Config ∗cfg)

8.63.1 Detailed Description

This class is MCC implementing TCP server. Upon creation this object binds to specified TCP ports and listens for incoming TCP connections on dedicated thread. Each connection is accepted and dedicated thread is created. Then that thread is used to call process() method of next MCC in chain. That method is

passed payload implementing PayloadStreamInterface. On response payload with PayloadRawInterface is expected. Alternatively called MCC may use provided PayloadStreamInterface to send it's response back directly. During processing of request this MCC generates following attributes: TCP:HOST - IP address of interface to which local TCP socket is bound TCP:PORT - port number to which local TCP socket is bound TCP:REMOTEHOST - IP address from which connection is accepted TCP:REMOTEPORT - TCP port from which connection is accepted TCP:ENDPOINT - URL-like representation of remote connection - ://HOST:PORT ENDPOINT - global attribute equal to TCP:ENDPOINT

8.63.2 Constructor & Destructor Documentation

8.63.2.1 Arc::MCC_TCP_Service::MCC_TCP_Service (Config * *cfg*)

executing function for connection thread

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

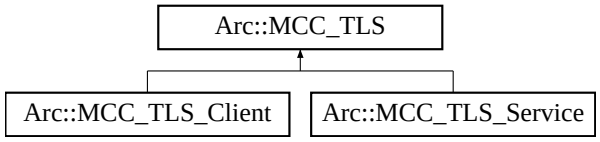
- MCCTCP.h

8.64 Arc::MCC_TLS Class Reference

A base class for TLS client and service MCCs.

`#include <MCCTLS.h>`

Inheritance diagram for Arc::MCC_TLS:



8.64.1 Detailed Description

A base class for TLS client and service MCCs. This is a base class for TLS client and service MCCs. It provides some common functionality for them.

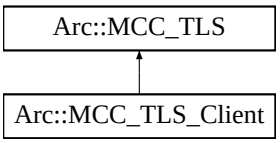
The documentation for this class was generated from the following file:

- MCCTLS.h

8.65 Arc::MCC_TLS_Client Class Reference

`#include <MCCTLS.h>`

Inheritance diagram for Arc::MCC_TLS_Client:



8.65.1 Detailed Description

This class is MCC implementing TLS client.

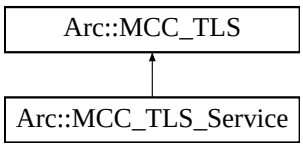
The documentation for this class was generated from the following file:

- MCCTLS.h

8.66 Arc::MCC_TLS_Service Class Reference

`#include <MCCTLS.h>`

Inheritance diagram for Arc::MCC_TLS_Service:



8.66.1 Detailed Description

This MCC implements TLS server side functionality. Upon creation this object creats SSL_CTX object and configures SSL_CTX object with some environment information about credential. Because we cannot know the "socket" when the creation of MCC_TLS_Service/MCC_TLS_Client object (not like **MCC_TCP_Client** (p. 56), which can creat socket in the constructor method by using information in configuration file), we can only creat "ssl" object which is binded to specified "socket", when **MCC_HTTP_Client** (p. 52) calls the process() method of **MCC_TLS_Client** (p. 57) object, or **MCC_TCP_Service** (p. 56) calls the process() method of **MCC_TLS_Service** (p. 58) object. The "ssl" object is embeded in a payload called PayloadTLSSocket.

The process() method of **MCC_TLS_Service** (p. 58) is passed payload implementing PayloadStreamInterface and the method returns empty PayloadRaw payload in "outmsg". The ssl object is created and bound to Stream payload when constructing the PayloadTLSSocket in the process() method.

During processing of message this MCC generates attribute TLS:PEERDN which contains Distinguished Name of remoote peer.

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

- MCCTLS.h

8.67 Arc::PayloadGSIStream Class Reference

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

- PayloadGSIStream.h

8.68 Arc::PayloadHTTP Class Reference

`#include <PayloadHTTP.h>`

Public Member Functions

- **PayloadHTTP** (PayloadStreamInterface &stream, bool own=false)
- **PayloadHTTP** (const std::string &method, const std::string &url, PayloadStreamInterface &stream)
- **PayloadHTTP** (const std::string &method, const std::string &url)
- **PayloadHTTP** (int code, const std::string &reason, PayloadStreamInterface &stream)
- **PayloadHTTP** (int code, const std::string &reason)
- virtual const std::string & **Attribute** (const std::string &name)
- virtual const std::multimap< std::string, std::string > & **Attributes** (void)
- virtual void **Attribute** (const std::string &name, const std::string &value)
- virtual bool **Flush** (void)
- virtual void **Body** (PayloadRawInterface &body, bool ownership=true)

Protected Member Functions

- bool **readline** (std::string &line)
- bool **read** (char *buf, int64_t &size)
- bool **parse_header** (void)
- bool **get_body** (void)

Protected Attributes

- PayloadStreamInterface * **stream_**
- bool **stream_own_**
- PayloadRawInterface * **rbody_**
- PayloadStreamInterface * **sbody_**
- bool **body_own_**
- std::string **uri_**
- int **version_major_**
- int **version_minor_**
- std::string **method_**
- int **code_**
- std::string **reason_**
- int64_t **length_**
- bool **chunked_**
- bool **keep_alive_**
- std::multimap< std::string, std::string > **attributes_**

8.68.1 Detailed Description

This class implements parsing and generation of HTTP messages. It implements only subset of HTTP/1.1 and also provides an PayloadRawInterface for including as payload into Message passed through MCC chains.

8.68.2 Constructor & Destructor Documentation

8.68.2.1 Arc::PayloadHTTP::PayloadHTTP (PayloadStreamInterface & *stream*, bool *own* = `false`)

Constructor - creates object by parsing HTTP request or response from stream. Supplied stream is associated with object for later use. If own is set to true then stream will be deleted in destructor. Because stream can be used by this object during whole lifetime it is important not to destroy stream till this object is deleted.

8.68.2.2 Arc::PayloadHTTP::PayloadHTTP (const std::string & *method*, const std::string & *url*, PayloadStreamInterface & *stream*)

Constructor - creates HTTP request to be sent through stream. HTTP message is not sent yet.

8.68.2.3 Arc::PayloadHTTP::PayloadHTTP (const std::string & *method*, const std::string & *url*)

Constructor - creates HTTP request to be rendered through Raw interface.

8.68.2.4 Arc::PayloadHTTP::PayloadHTTP (int *code*, const std::string & *reason*, PayloadStreamInterface & *stream*)

Constructor - creates HTTP response to be sent through stream. HTTP message is not sent yet.

8.68.2.5 Arc::PayloadHTTP::PayloadHTTP (int *code*, const std::string & *reason*)

Constructor - creates HTTP response to be rendered through Raw interface.

8.68.3 Member Function Documentation

8.68.3.1 virtual const std::string& Arc::PayloadHTTP::Attribute (const std::string & *name*) `[virtual]`

Returns HTTP header attribute with specified name. Empty string if no such attribute.

8.68.3.2 virtual void Arc::PayloadHTTP::Attribute (const std::string & *name*, const std::string & *value*) `[virtual]`

Adds HTTP header attribute 'name' = 'value'

8.68.3.3 virtual const std::multimap<std::string,std::string>& Arc::PayloadHTTP::Attributes (void) [virtual]

Returns all HTTP header attributes.

8.68.3.4 virtual void Arc::PayloadHTTP::Body (PayloadRawInterface & *body,* bool *ownership* = *true*) [virtual]

Assign HTTP body. Assigned object is not copied. Instead it is remembered and made available through Raw interface. If 'ownership' is true then passed object is treated as being owned by this instance and destroyed in destructor.

8.68.3.5 virtual bool Arc::PayloadHTTP::Flush (void) [virtual]

Send created object through associated stream. If there is no stream associated then HTTP specific data is inserted into Raw buffers of this object. In last case this operation should not be repeated till content of buffer is completely rewritten.

8.68.3.6 bool Arc::PayloadHTTP::get_body (void) [protected]

Read Body of HTTP message and attach it to inherited PayloadRaw object

8.68.3.7 bool Arc::PayloadHTTP::parse_header (void) [protected]

Read HTTP header and fill internal variables

8.68.3.8 bool Arc::PayloadHTTP::read (char * *buf,* int64_t & *size*) [protected]

Read up to 'size' bytes from stream_

8.68.3.9 bool Arc::PayloadHTTP::readline (std::string & *line*) [protected]

Read from stream till

8.68.4 Field Documentation

8.68.4.1 std::multimap<std::string,std::string> Arc::PayloadHTTP::attributes_ [protected]

true if conection should not be closed after response

8.68.4.2 bool Arc::PayloadHTTP::body_own_ [protected]

associated HTTP Body stream if any (to avoid copying to own buffer)

8.68.4.3 bool Arc::PayloadHTTP::chunked_ [protected]

Content-length of HTTP message

8.68.4.4 int Arc::PayloadHTTP::code_ [protected]

HTTP method being used or requested

8.68.4.5 bool Arc::PayloadHTTP::keep_alive_ [protected]

true if content is chunked

8.68.4.6 int64_t Arc::PayloadHTTP::length_ [protected]

HTTP reason being sent or supplied

8.68.4.7 std::string Arc::PayloadHTTP::method_ [protected]

minor number of HTTP version - must be 0 or 1

8.68.4.8 PayloadRawInterface* Arc::PayloadHTTP::rbody_ [protected]

if true stream_ is owned by this

8.68.4.9 std::string Arc::PayloadHTTP::reason_ [protected]

HTTP code being sent or supplied

8.68.4.10 PayloadStreamInterface* Arc::PayloadHTTP::sbody_ [protected]

associated HTTP Body buffer if any (to avoid copying to own buffer)

8.68.4.11 PayloadStreamInterface* Arc::PayloadHTTP::stream_ [protected]

true if whole content of HTTP body was fetched and stored in buffers. Otherwise only header was fetched and part of body in tbuf_ and rest is to be read through stream_.

8.68.4.12 bool Arc::PayloadHTTP::stream_own_ [protected]

stream used to comminicate to outside

8.68.4.13 std::string Arc::PayloadHTTP::uri_ [protected]

if true body_ is owned by this

8.68.4.14 int Arc::PayloadHTTP::version_major_ [protected]

URI being contacted

8.68.4.15 int Arc::PayloadHTTP::version_minor_ [protected]

major number of HTTP version - must be 1

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

- PayloadHTTP.h

8.69 Arc::PayloadTCPSocket Class Reference

`#include <PayloadTCPSocket.h>`

Public Member Functions

- **PayloadTCPSocket** (const char *hostname, int port, int timeout, Logger &logger)
- **PayloadTCPSocket** (const std::string endpoint, int timeout, Logger &logger)
- **PayloadTCPSocket** (int s, int timeout, Logger &logger)
- **PayloadTCPSocket** (**PayloadTCPSocket** &s)
- **PayloadTCPSocket** (**PayloadTCPSocket** &s, Logger &logger)

8.69.1 Detailed Description

This class extends PayloadStream with TCP socket specific features

8.69.2 Constructor & Destructor Documentation

8.69.2.1 Arc::PayloadTCPSocket::PayloadTCPSocket (const char * *hostname,* int *port,* int *timeout,* Logger & *logger*)

Constructor - connects to TCP server at specified hostname:port

8.69.2.2 Arc::PayloadTCPSocket::PayloadTCPSocket (const std::string *endpoint,* int *timeout,* Logger & *logger*)

Constructor - connects to TCP server at specified endpoint - hostname:port

8.69.2.3 Arc::PayloadTCPSocket::PayloadTCPSocket (int *s,* int *timeout,* Logger & *logger*) [inline]

Constructor - creates object of already connected socket. Socket is NOT closed in destructor.

8.69.2.4 Arc::PayloadTCPSocket::PayloadTCPSocket (PayloadTCPSocket & *s*) [inline]

Copy constructor - inherits socket of copied object. Socket is NOT closed in destructor.

8.69.2.5 Arc::PayloadTCPSocket::PayloadTCPSocket (PayloadTCPSocket & *s*, Logger & *logger*) [inline]

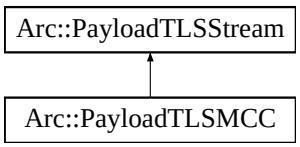
Copy constructor - inherits handle of copied object. Handle is NOT closed in destructor.

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

- PayloadTCPSocket.h

8.70 Arc::PayloadTLSMCC Class Reference

Inheritance diagram for Arc::PayloadTLSMCC:



Public Member Functions

- **PayloadTLSMCC** (MCCInterface *mcc, const **ConfigTLSMCC** &cfg, Logger &logger)
- **PayloadTLSMCC** (PayloadStreamInterface *stream, const **ConfigTLSMCC** &cfg, Logger &logger)
- **PayloadTLSMCC** (**PayloadTLSMCC** &stream)

8.70.1 Constructor & Destructor Documentation

8.70.1.1 Arc::PayloadTLSMCC::PayloadTLSMCC (MCCInterface * *mcc*, const ConfigTLSMCC & *cfg*, Logger & *logger*)

Constructor - creates ssl object which is bound to next MCC. This instance must be used on client side. It obtains Stream interface from next MCC dynamically.

8.70.1.2 Arc::PayloadTLSMCC::PayloadTLSMCC (PayloadStreamInterface * *stream*, const ConfigTLSMCC & *cfg*, Logger & *logger*)

Constructor - creates ssl object which is bound to stream. This constructor to be used on server side. Provided stream is NOT destroyed in destructor.

8.70.1.3 Arc::PayloadTLSMCC::PayloadTLSMCC (PayloadTLSMCC & *stream*)

Copy constructor with new logger. Created object shares same SSL objects but does not destroy them in destructor. Main instance must be destroyed after all copied ones.

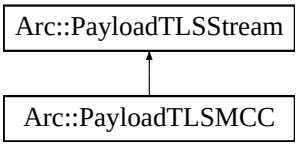
The documentation for this class was generated from the following file:

- PayloadTLSMCC.h

8.71 Arc::PayloadTLSStream Class Reference

`#include <PayloadTLSStream.h>`

Inheritance diagram for Arc::PayloadTLSStream:



Public Member Functions

- **PayloadTLSStream** (Logger &logger, SSL ∗ssl=NULL)
- virtual ∼**PayloadTLSStream** (void)
- X509 ∗ **GetPeerCert** (void)
- **STACK_OF** (X509)∗GetPeerChain(void)
- X509 ∗ **GetCert** (void)

Protected Attributes

- SSL ∗ **ssl_**

8.71.1 Detailed Description

Implemetation of PayloadStreamInterface for SSL handle.

8.71.2 Constructor & Destructor Documentation

8.71.2.1 Arc::PayloadTLSStream::PayloadTLSStream (Logger & *logger*, SSL ∗ *ssl* = ***NULL***)

Constructor. Attaches to already open handle. Handle is not managed by this class and must be closed by external code.

8.71.2.2 virtual Arc::PayloadTLSStream::∼PayloadTLSStream (void) [virtual]

Destructor.

8.71.3 Member Function Documentation

8.71.3.1 X509∗ Arc::PayloadTLSStream::GetCert (void)

Get local certificate from associated ssl. Obtained X509 object is owned by this instance and becomes invalid after destruction.

8.71.3.2 X509* Arc::PayloadTLSStream::GetPeerCert (void)

Get peer certificate from the established ssl. Obtained X509 object is owned by this instance and becomes invalid after destruction. Still obtained has to be freed at end of usage.

8.71.3.3 Arc::PayloadTLSStream::STACK_OF (X509)

Get chain of peer certificates from the established ssl. Obtained X509 object is owned by this instance and becomes invalid after destruction.

8.71.4 Field Documentation

8.71.4.1 SSL* Arc::PayloadTLSStream::ssl_ [protected]

Timeout for read/write operations

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

- PayloadTLSStream.h

8.72 ArcSec::PDPServiceInvoker Class Reference

PDPServiceInvoker (p. 66) - client which will invoke pdpservice.

`#include <PDPServiceInvoker.h>`

8.72.1 Detailed Description

PDPServiceInvoker (p. 66) - client which will invoke pdpservice.

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

- PDPServiceInvoker.h

8.73 ArcSec::SAML2SSO_AssertionConsumerSH Class Reference

Implement the funcionality of the Service Provider in SAML2 SSO profile.

`#include <SAML2SSO_AssertionConsumerSH.h>`

8.73.1 Detailed Description

Implement the funcionality of the Service Provider in SAML2 SSO profile.

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

- SAML2SSO_AssertionConsumerSH.h

8.74 ArcSec::SAMLTokenSH Class Reference

Adds WS-Security SAML Token into SOAP Header.

`#include <SAMLTokenSH.h>`

8.74.1 Detailed Description

Adds WS-Security SAML Token into SOAP Header.

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

- SAMLTokenSH.h

8.75 ArcSec::SimpleListPDP Class Reference

Tests X509 subject against list of subjects in file.

`#include <SimpleListPDP.h>`

8.75.1 Detailed Description

Tests X509 subject against list of subjects in file. This class implements PDP interface. It's isPermitted() method compares X590 subject of requestor obtained from TLS layer (TLS:PEERDN) to list of subjects (ne per line) in external file. Locations of file is defined by 'location' attribute of PDP caonfiguration. Returns true if subject is present in list, otherwise false.

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

- SimpleListPDP.h

8.76 SOAP_ENV__Code Struct Reference

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

- dummy_soapStub.h
- srm1_soapStub.h
- srm2_2_soapStub.h

8.77 SOAP_ENV__Detail Struct Reference

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

- dummy_soapStub.h
- srm1_soapStub.h
- srm2_2_soapStub.h

8.78 SOAP_ENV__Fault Struct Reference

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

- dummy_soapStub.h
- srm1_soapStub.h
- srm2_2_soapStub.h

8.79 SOAP_ENV__Header Struct Reference

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

- dummy_soapStub.h

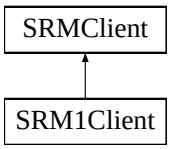
8.80 SOAP_ENV__Reason Struct Reference

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

- dummy_soapStub.h
- srm1_soapStub.h
- srm2_2_soapStub.h

8.81 SRM1Client Class Reference

Inheritance diagram for SRM1Client:



Public Member Functions

- SRMReturnCode **ping** (std::string &**version**, bool report_error=true)
- SRMReturnCode **getSpaceTokens** (std::list< std::string > &tokens, std::string description="")
- SRMReturnCode **getRequestTokens** (std::list< std::string > &tokens, std::string description="")
- SRMReturnCode **requestBringOnline** (**SRMClientRequest** &req)
- SRMReturnCode **requestBringOnlineStatus** (**SRMClientRequest** &req)
- SRMReturnCode **mkDir** (**SRMClientRequest** &req)
- SRMReturnCode **getTURLs** (**SRMClientRequest** &req, std::list< std::string > &urls)
- SRMReturnCode **putTURLs** (**SRMClientRequest** &req, std::list< std::string > &urls, unsigned long long size=0)
- SRMReturnCode **releaseGet** (**SRMClientRequest** &req)
- SRMReturnCode **releasePut** (**SRMClientRequest** &req)
- SRMReturnCode **release** (**SRMClientRequest** &req)

- SRMReturnCode **abort** (**SRMClientRequest** &req)
- SRMReturnCode **info** (**SRMClientRequest** &req, std::list< struct **SRMFileMetaData** > &metadata, const int recursive=0, bool report_error=true)
- SRMReturnCode **remove** (**SRMClientRequest** &req)
- SRMReturnCode **copy** (**SRMClientRequest** &req, const std::string &source)

8.81.1 Member Function Documentation

8.81.1.1 SRMReturnCode SRM1Client::abort (SRMClientRequest & *req*) [virtual]

Called in the case of failure during transfer or releasePut. Releases all TURLs involved in the transfer.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 77).

8.81.1.2 SRMReturnCode SRM1Client::copy (SRMClientRequest & *req,* const std::string & *source*) [virtual]

Copy a file between two SRM storages.

Parameters

req The request object

source The source SURL

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 78).

8.81.1.3 SRMReturnCode SRM1Client::getRequestTokens (std::list< std::string > & *tokens,* std::string *description* = "") [inline, virtual]

Returns a list of request tokens for the user calling the method which are still active requests, or the tokens corresponding to the token description, if given.

Parameters

tokens The list filled by the service

description The user request description, which can be specified when the request is created

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 79).

8.81.1.4 SRMReturnCode SRM1Client::getSpaceTokens (std::list< std::string > & *tokens*, std::string *description* = "") [inline, virtual]

Find the space tokens available to write to which correspond to the space token description, if given. The list of tokens is a list of numbers referring to the SRM internal definition of the spaces, not user-readable strings.

Parameters

tokens The list filled by the service

description The space token description

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 79).

8.81.1.5 SRMReturnCode SRM1Client::getTURLs (SRMClientRequest & *req*, std::list< std::string > & *urls*) [virtual]

If the user wishes to copy a file from somewhere, **getTURLs()** (p. 70) is called to retrieve the transport URL to copy the file from.

Parameters

req The request object

urls A list of TURLs filled by the method

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 79).

8.81.1.6 SRMReturnCode SRM1Client::info (SRMClientRequest & *req*, std::list< struct SRMFileMetaData > & *metadata*, const int *recursive* = 0, bool *report_error* = true) [virtual]

Returns information on a file or files (v2.2 and higher) stored in an SRM, such as file size, checksum and estimated access latency.

Parameters

req The request object

metadata A list of structs filled with file information

recursive The level of recursion into sub directories

report_error Determines if errors should be reported

Returns

SRMReturnCode specifying outcome of operation

See also

SRMFileMetaData (p. 86)

Implements **SRMClient** (p. 80).

8.81.1.7 SRMReturnCode SRM1Client::mkDir (SRMClientRequest & *req*) [inline, virtual]

Make required directories for the SURL in the request

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 80).

8.81.1.8 SRMReturnCode SRM1Client::ping (std::string & *version*, bool *report_error* = `true`) [inline, virtual]

Find out the version supported by the server this client is connected to. Since this method is used to determine which client version to instantiate, we may not want to report an error to the user, so setting report_error to false supresses the error message.

Parameters

version The version returned by the server

report_error Whether an error should be reported

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 80).

8.81.1.9 SRMReturnCode SRM1Client::putTURLs (SRMClientRequest & *req*, std::list< std::string > & *urls*, unsigned long long *size* = `0`) [virtual]

If the user wishes to copy a file to somewhere, **putTURLs()** (p. 71) is called to retrieve the transport URL to copy the file to.

Parameters

req The request object

urls A list of TURLs filled by the method

size The size of the file

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 81).

8.81.1.10 SRMReturnCode SRM1Client::release (SRMClientRequest & *req*) [virtual]

Used in SRM v1 only. Called to release files after successful transfer.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 81).

8.81.1.11 SRMReturnCode SRM1Client::releaseGet (SRMClientRequest & *req*) [virtual]

Should be called after a successful copy from SRM storage.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 81).

8.81.1.12 SRMReturnCode SRM1Client::releasePut (SRMClientRequest & *req*) [virtual]

Should be called after a successful copy to SRM storage.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 82).

8.81.1.13 SRMReturnCode SRM1Client::remove (SRMClientRequest & *req*) [virtual]

Delete a file physically from storage and the SRM namespace.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 82).

8.81.1.14 SRMReturnCode SRM1Client::requestBringOnline (SRMClientRequest & *req*) [inline, virtual]

Submit a request to bring online files. This operation is asynchronous and the status of the request can be checked by calling **requestBringOnlineStatus()** (p. 73) with the request token in req which is assigned by this method.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 82).

8.81.1.15 SRMReturnCode SRM1Client::requestBringOnlineStatus (SRMClientRequest & *req*) [inline, virtual]

Query the status of a request to bring files online. The SURLs map is updated if the status of any files in the request has changed.

Parameters

req The request object to query the status of

Returns

SRMReturnCode specifying outcome of operation

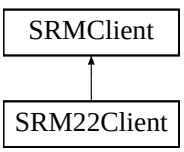
Implements **SRMClient** (p. 82).

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

- SRM1Client.h

8.82 SRM22Client Class Reference

Inheritance diagram for SRM22Client:



Public Member Functions

- SRMReturnCode **ping** (std::string &**version**, bool report_error=true)
- SRMReturnCode **getSpaceTokens** (std::list< std::string > &tokens, std::string description="")
- SRMReturnCode **getRequestTokens** (std::list< std::string > &tokens, std::string description="")

- SRMReturnCode **getTURLs** (**SRMClientRequest** &req, std::list< std::string > &urls)
- SRMReturnCode **putTURLs** (**SRMClientRequest** &req, std::list< std::string > &urls, unsigned long long size=0)
- SRMReturnCode **requestBringOnline** (**SRMClientRequest** &req)
- SRMReturnCode **requestBringOnlineStatus** (**SRMClientRequest** &req)
- SRMReturnCode **info** (**SRMClientRequest** &req, std::list< struct **SRMFileMetaData** > &metadata, const int recursive=0, bool report_error=true)
- SRMReturnCode **releaseGet** (**SRMClientRequest** &req)
- SRMReturnCode **releasePut** (**SRMClientRequest** &req)
- SRMReturnCode **release** (**SRMClientRequest** &req)
- SRMReturnCode **abort** (**SRMClientRequest** &req)
- SRMReturnCode **remove** (**SRMClientRequest** &req)
- SRMReturnCode **copy** (**SRMClientRequest** &req, const std::string &source)
- SRMReturnCode **mkDir** (**SRMClientRequest** &req)

8.82.1 Member Function Documentation

8.82.1.1 SRMReturnCode SRM22Client::abort (SRMClientRequest & *req*) [virtual]

Abort request. Called after any failure in the data transfer or putDone calls

Implements **SRMClient** (p. 77).

8.82.1.2 SRMReturnCode SRM22Client::copy (SRMClientRequest & *req*, const std::string & *source*) [virtual]

Implemented in pull mode, ie the endpoint defined in the request object performs the copy.

Implements **SRMClient** (p. 78).

8.82.1.3 SRMReturnCode SRM22Client::getRequestTokens (std::list< std::string > & *tokens*, std::string *description* = "") [virtual]

Use srmGetRequestTokens to return a list of spaces available

Implements **SRMClient** (p. 79).

8.82.1.4 SRMReturnCode SRM22Client::getSpaceTokens (std::list< std::string > & *tokens*, std::string *description* = "") [virtual]

Use srmGetSpaceTokens to return a list of spaces available

Implements **SRMClient** (p. 79).

8.82.1.5 SRMReturnCode SRM22Client::getTURLs (SRMClientRequest & *req*, std::list< std::string > & *urls*) [virtual]

Get a list of TURLs for the given SURL. Uses srmPrepareToGet and waits until file is ready (online and pinned). Although a list is returned, SRMv2.2 only returns one TURL per SURL.

Implements **SRMClient** (p. 79).

8.82.1.6 SRMReturnCode SRM22Client::info (SRMClientRequest & *req*, std::list< struct SRMFileMetaData > & *metadata*, const int *recursive* = *0*, bool *report_error* = *true*) [virtual]

Use srmLs to get info on the given SURL. Info on each file is put in a metadata struct and added to the list.

Implements **SRMClient** (p. 80).

8.82.1.7 SRMReturnCode SRM22Client::mkDir (SRMClientRequest & *req*) [virtual]

Call srmMkDir

Implements **SRMClient** (p. 80).

8.82.1.8 SRMReturnCode SRM22Client::ping (std::string & *version*, bool *report_error* = *true*) [virtual]

Get the server version from srmPing

Implements **SRMClient** (p. 80).

8.82.1.9 SRMReturnCode SRM22Client::putTURLs (SRMClientRequest & *req*, std::list< std::string > & *urls*, unsigned long long *size* = *0*) [virtual]

Retrieve TURLs which a file can be written to. Uses srmPrepareToPut and waits until a suitable TURL has been assigned. Although a list is returned, SRMv2.2 only returns one TURL per SURL.

Implements **SRMClient** (p. 81).

8.82.1.10 SRMReturnCode SRM22Client::release (SRMClientRequest & *req*) [inline, virtual]

Not used in this version of SRM

Implements **SRMClient** (p. 81).

8.82.1.11 SRMReturnCode SRM22Client::releaseGet (SRMClientRequest & *req*) [virtual]

Release files that have been pinned by srmPrepareToGet using srmReleaseFiles. Called after successful file transfer or failed prepareToGet.

Implements **SRMClient** (p. 81).

8.82.1.12 SRMReturnCode SRM22Client::releasePut (SRMClientRequest & *req*) [virtual]

Mark a put request as finished. Called after successful file transfer or failed prepareToPut.

Implements **SRMClient** (p. 82).

8.82.1.13 SRMReturnCode SRM22Client::remove (SRMClientRequest & *req*) [virtual]

Delete by srmRm or srmRmDir

Implements **SRMClient** (p. 82).

8.82.1.14 SRMReturnCode SRM22Client::requestBringOnline (SRMClientRequest & *req*) [virtual]

Call srmBringOnline with the SURLs specified in req.

Implements **SRMClient** (p. 82).

8.82.1.15 SRMReturnCode SRM22Client::requestBringOnlineStatus (SRMClientRequest & *req*) [virtual]

Call srmStatusOfBringOnlineRequest and update req with any changes.

Implements **SRMClient** (p. 82).

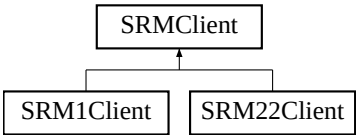
The documentation for this class was generated from the following file:

- SRM22Client.h

8.83 SRMClient Class Reference

`#include <SRMClient.h>`

Inheritance diagram for SRMClient:



Public Member Functions

- SRMReturnCode **connect** (void)
- bool **disconnect** (void)
- virtual ~**SRMClient** ()
- void **Timeout** (int t)
- std::string **getVersion** () const
- virtual SRMReturnCode **ping** (std::string &**version**, bool report_error=true)=0
- virtual SRMReturnCode **getSpaceTokens** (std::list< std::string > &tokens, std::string description="")=0
- virtual SRMReturnCode **getRequestTokens** (std::list< std::string > &tokens, std::string description="")=0
- virtual SRMReturnCode **getTURLs** (**SRMClientRequest** &req, std::list< std::string > &urls)=0
- virtual SRMReturnCode **requestBringOnline** (**SRMClientRequest** &req)=0
- virtual SRMReturnCode **requestBringOnlineStatus** (**SRMClientRequest** &req)=0

- virtual SRMReturnCode **putTURLs** (**SRMClientRequest** &req, std::list< std::string > &urls, unsigned long long size=0)=0
- virtual SRMReturnCode **releaseGet** (**SRMClientRequest** &req)=0
- virtual SRMReturnCode **releasePut** (**SRMClientRequest** &req)=0
- virtual SRMReturnCode **release** (**SRMClientRequest** &req)=0
- virtual SRMReturnCode **abort** (**SRMClientRequest** &req)=0
- virtual SRMReturnCode **info** (**SRMClientRequest** &req, std::list< struct **SRMFileMetaData** > &metadata, const int recursive=0, bool report_error=true)=0
- virtual SRMReturnCode **remove** (**SRMClientRequest** &req)=0
- virtual SRMReturnCode **copy** (**SRMClientRequest** &req, const std::string &source)=0
- virtual SRMReturnCode **mkDir** (**SRMClientRequest** &req)=0

Static Public Member Functions

- static **SRMClient** * **getInstance** (const Arc::UserConfig &usercfg, std::string url, bool &timedout, time_t timeout=300)

Protected Attributes

- std::string **service_endpoint**
- **Arc::HTTPSClientSOAP** * **csoap**
- SRMImplementation **implementation**
- std::string **version**

Static Protected Attributes

- static time_t **request_timeout**
- static Arc::Logger **logger**

8.83.1 Detailed Description

A client interface to the SRM protocol. Instances of SRM clients are created by calling the **getInstance()** (p. 78) factory method. One client instance can be used to make many requests to the same server (with the same protocol version), but not multiple servers.

8.83.2 Constructor & Destructor Documentation

8.83.2.1 virtual SRMClient::~SRMClient ( ) [inline, virtual]

empty destructor

8.83.3 Member Function Documentation

8.83.3.1 virtual SRMReturnCode SRMClient::abort (SRMClientRequest & *req*) [pure virtual]

Called in the case of failure during transfer or releasePut. Releases all TURLs involved in the transfer.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 69), and **SRM22Client** (p. 74).

8.83.3.2 SRMReturnCode SRMClient::connect (void)

Establish a connection to the service

Returns

SRMReturnCode specifying outcome of operation

8.83.3.3 virtual SRMReturnCode SRMClient::copy (SRMClientRequest & *req,* const std::string & *source*) [pure virtual]

Copy a file between two SRM storages.

Parameters

req The request object

source The source SURL

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 69), and **SRM22Client** (p. 74).

8.83.3.4 bool SRMClient::disconnect (void) [inline]

Disconnect from the service and destroy the connection

References csoap.

8.83.3.5 static SRMClient* SRMClient::getInstance (const Arc::UserConfig & *usercfg,* std::string *url,* bool & *timedout,* time_t *timeout* = *300*) [static]

Returns an **SRMClient** (p. 76) instance with the required protocol version. This must be used to create **SRMClient** (p. 76) instances. Specifying a version explicitly forces creation of a client with that version.

Parameters

usercfg The user configuration.

url A SURL. A client connects to the service host derived from this SURL. All operations with a client instance must use SURLs with the same host as this one.

timedout Whether the connection timed out

timeout Connection timeout. is returned.

8.83.3.6 virtual SRMReturnCode SRMClient::getRequestTokens (std::list< std::string > & *tokens,* std::string *description* = "") [pure virtual]

Returns a list of request tokens for the user calling the method which are still active requests, or the tokens corresponding to the token description, if given.

Parameters

tokens The list filled by the service

description The user request description, which can be specified when the request is created

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 69), and **SRM22Client** (p. 74).

8.83.3.7 virtual SRMReturnCode SRMClient::getSpaceTokens (std::list< std::string > & *tokens,* std::string *description* = "") [pure virtual]

Find the space tokens available to write to which correspond to the space token description, if given. The list of tokens is a list of numbers referring to the SRM internal definition of the spaces, not user-readable strings.

Parameters

tokens The list filled by the service

description The space token description

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 70), and **SRM22Client** (p. 74).

8.83.3.8 virtual SRMReturnCode SRMClient::getTURLs (SRMClientRequest & *req,* std::list< std::string > & *urls*) [pure virtual]

If the user wishes to copy a file from somewhere, **getTURLs()** (p. 79) is called to retrieve the transport URL to copy the file from.

Parameters

req The request object

urls A list of TURLs filled by the method

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 70), and **SRM22Client** (p. 74).

8.83.3.9 std::string SRMClient::getVersion ( ) const [inline]

Returns the version of the SRM protocol used by this instance

References version.

8.83.3.10 virtual SRMReturnCode SRMClient::info (SRMClientRequest & *req,* std::list< struct SRMFileMetaData > & *metadata,* const int *recursive* = *0,* bool *report_error* = *true*) [pure virtual]

Returns information on a file or files (v2.2 and higher) stored in an SRM, such as file size, checksum and estimated access latency.

Parameters

req The request object

metadata A list of structs filled with file information

recursive The level of recursion into sub directories

report_error Determines if errors should be reported

Returns

SRMReturnCode specifying outcome of operation

See also

SRMFileMetaData (p. 86)

Implemented in **SRM1Client** (p. 70), and **SRM22Client** (p. 75).

8.83.3.11 virtual SRMReturnCode SRMClient::mkDir (SRMClientRequest & *req*) [pure virtual]

Make required directories for the SURL in the request

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 71), and **SRM22Client** (p. 75).

8.83.3.12 virtual SRMReturnCode SRMClient::ping (std::string & *version,* bool *report_error* = *true*) [pure virtual]

Find out the version supported by the server this client is connected to. Since this method is used to determine which client version to instantiate, we may not want to report an error to the user, so setting report_error to false supresses the error message.

Parameters

version The version returned by the server

report_error Whether an error should be reported

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 71), and **SRM22Client** (p. 75).

8.83.3.13 virtual SRMReturnCode SRMClient::putTURLs (SRMClientRequest & *req*, std::list< std::string > & *urls*, unsigned long long *size* = *0*) [pure virtual]

If the user wishes to copy a file to somewhere, **putTURLs()** (p. 81) is called to retrieve the transport URL to copy the file to.

Parameters

req The request object

urls A list of TURLs filled by the method

size The size of the file

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 71), and **SRM22Client** (p. 75).

8.83.3.14 virtual SRMReturnCode SRMClient::release (SRMClientRequest & *req*) [pure virtual]

Used in SRM v1 only. Called to release files after successful transfer.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 72), and **SRM22Client** (p. 75).

8.83.3.15 virtual SRMReturnCode SRMClient::releaseGet (SRMClientRequest & *req*) [pure virtual]

Should be called after a successful copy from SRM storage.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 72), and **SRM22Client** (p. 75).

8.83.3.16 virtual SRMReturnCode SRMClient::releasePut (SRMClientRequest & *req*) [pure virtual]

Should be called after a successful copy to SRM storage.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 72), and **SRM22Client** (p. 75).

8.83.3.17 virtual SRMReturnCode SRMClient::remove (SRMClientRequest & *req*) [pure virtual]

Delete a file physically from storage and the SRM namespace.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 72), and **SRM22Client** (p. 76).

8.83.3.18 virtual SRMReturnCode SRMClient::requestBringOnline (SRMClientRequest & *req*) [pure virtual]

Submit a request to bring online files. This operation is asynchronous and the status of the request can be checked by calling **requestBringOnlineStatus()** (p. 82) with the request token in req which is assigned by this method.

Parameters

req The request object

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 73), and **SRM22Client** (p. 76).

8.83.3.19 virtual SRMReturnCode SRMClient::requestBringOnlineStatus (SRMClientRequest & *req*) [pure virtual]

Query the status of a request to bring files online. The SURLs map is updated if the status of any files in the request has changed.

Parameters

req The request object to query the status of

Returns

SRMReturnCode specifying outcome of operation

Implemented in **SRM1Client** (p. 73), and **SRM22Client** (p. 76).

8.83.3.20 void SRMClient::Timeout (int *t*) [inline]

set the request timeout

References request_timeout.

8.83.4 Field Documentation

8.83.4.1 Arc::HTTPSClientSOAP* SRMClient::csoap [protected]

SOAP client object

Referenced by disconnect().

8.83.4.2 SRMImplementation SRMClient::implementation [protected]

The implementation of the server

8.83.4.3 Arc::Logger SRMClient::logger [static, protected]

Logger

8.83.4.4 time_t SRMClient::request_timeout [static, protected]

Timeout for requests to the SRM service

Referenced by Timeout().

8.83.4.5 std::string SRMClient::service_endpoint [protected]

The URL of the service endpoint, eg httpg://srm.ndgf.org:8443/srm/managerv2 All SURLs passed to methods must correspond to this endpoint.

8.83.4.6 std::string SRMClient::version [protected]

The version of the SRM protocol used

Referenced by getVersion().

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

- SRMClient.h

8.84 SRMClientRequest Class Reference

`#include <SRMClient.h>`

Public Member Functions

- **SRMClientRequest** (std::list< std::string > urls) throw (SRMInvalidRequestException)
- **SRMClientRequest** (std::string url="", std::string id="") throw (SRMInvalidRequestException)
- void **request_id** (int id)
- void **request_token** (char *token)
- void **file_ids** (const std::list< int > &ids)
- void **space_token** (const std::string &token)
- std::list< std::string > **surls** () const
- void **surl_statuses** (const std::string &surl, SRMFileLocality locality)
- void **surl_failures** (const std::string &surl, const std::string &reason)
- void **waiting_time** (int wait_time)
- void **finished_success** ()
- void **long_list** (bool list)

8.84.1 Detailed Description

Class to represent a request which may be used for multiple operations, for example calling getTURLs() sets the request token in the request object (for a v2.2 client) and then same object is passed to releaseGet().

8.84.2 Constructor & Destructor Documentation

8.84.2.1 SRMClientRequest::SRMClientRequest (std::list< std::string > *urls*) throw (SRMInvalidRequestException) [inline]

Creates a request object with multiple SURLs. The URLs here are in the form srm://srm.ndgf.org/pnfs/ndgf.org/data/atlas/disk/user/user.mlassnig.dataset.1/dummyfile3

8.84.2.2 SRMClientRequest::SRMClientRequest (std::string *url* = "", std::string *id* = "") throw (SRMInvalidRequestException) [inline]

Creates a request object with a single SURL. The URL here are in the form srm://srm.ndgf.org/pnfs/ndgf.org/data/atlas/disk/user/user.mlassnig.dataset.1/dummyfile3

8.84.3 Member Function Documentation

8.84.3.1 void SRMClientRequest::file_ids (const std::list< int > & *ids*) [inline]

set and get file id list

8.84.3.2 void SRMClientRequest::finished_success ( ) [inline]

set and get status of request

8.84.3.3 void SRMClientRequest::long_list (bool *list*) [inline]

set and get long list flag

8.84.3.4 void SRMClientRequest::request_id (int *id*) [inline]

set and get request id

8.84.3.5 void SRMClientRequest::request_token (char * *token*) [inline]

set and get request token

8.84.3.6 void SRMClientRequest::space_token (const std::string & *token*) [inline]

set and get space token

8.84.3.7 void SRMClientRequest::surl_failures (const std::string & *surl*, const std::string & *reason*) [inline]

set and get surl failures

8.84.3.8 void SRMClientRequest::surl_statuses (const std::string & *surl*, SRMFileLocality *locality*) [inline]

set and get surl statuses

8.84.3.9 std::list<std::string> SRMClientRequest::surls ( ) const [inline]

get SURLs

8.84.3.10 void SRMClientRequest::waiting_time (int *wait_time*) [inline]

set and get waiting time

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

- SRMClient.h

8.85 SRMFileInfo Class Reference

`#include <SRMInfo.h>`

8.85.1 Detailed Description

Info about a particular entry in the SRM info file

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

- SRMInfo.h

8.86 SRMFileMetaData Struct Reference

`#include <SRMClient.h>`

8.86.1 Detailed Description

File metadata

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

- SRMClient.h

8.87 SRMInfo Class Reference

`#include <SRMInfo.h>`

8.87.1 Detailed Description

Represents SRM info stored in file. A combination of host and SRM version make a unique entry.

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

- SRMInfo.h

8.88 SRMInvalidRequestException Class Reference

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

- SRMClient.h

8.89 srmSoapBinding Class Reference

Public Member Functions

- **srmSoapBinding** ()
- virtual ~**srmSoapBinding** ()
- virtual int **SRMv2__srmReserveSpace** (**SRMv2__srmReserveSpaceRequest** *srmReserveSpaceRequest, struct **SRMv2__srmReserveSpaceResponse_** &_param_1)
- virtual int **SRMv2__srmStatusOfReserveSpaceRequest** (**SRMv2__srmStatusOfReserveSpaceRequestRequest** *srmStatusOfReserveSpaceRequestRequest, struct **SRMv2__srmStatusOfReserveSpaceRequestResponse_** &_param_2)
- virtual int **SRMv2__srmReleaseSpace** (**SRMv2__srmReleaseSpaceRequest** *srmReleaseSpaceRequest, struct **SRMv2__srmReleaseSpaceResponse_** &_param_3)

- virtual int **SRMv2__srmUpdateSpace** (**SRMv2__srmUpdateSpaceRequest** ∗srmUpdateSpaceRequest, struct **SRMv2__srmUpdateSpaceResponse_** &_param_4)
- virtual int **SRMv2__srmStatusOfUpdateSpaceRequest** (**SRMv2__srmStatusOfUpdateSpaceRequestRequest** ∗srmStatusOfUpdateSpaceRequestRequest, struct **SRMv2__srmStatusOfUpdateSpaceRequestResponse_** &_param_5)
- virtual int **SRMv2__srmGetSpaceMetaData** (**SRMv2__srmGetSpaceMetaDataRequest** ∗srmGetSpaceMetaDataRequest, struct **SRMv2__srmGetSpaceMetaDataResponse_** &_param_6)
- virtual int **SRMv2__srmChangeSpaceForFiles** (**SRMv2__srmChangeSpaceForFilesRequest** ∗srmChangeSpaceForFilesRequest, struct **SRMv2__srmChangeSpaceForFilesResponse_** &_param_7)
- virtual int **SRMv2__srmStatusOfChangeSpaceForFilesRequest** (**SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest** ∗srmStatusOfChangeSpaceForFilesRequestRequest, struct **SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_** &_param_8)
- virtual int **SRMv2__srmExtendFileLifeTimeInSpace** (**SRMv2__srmExtendFileLifeTimeInSpaceRequest** ∗srmExtendFileLifeTimeInSpaceRequest, struct **SRMv2__srmExtendFileLifeTimeInSpaceResponse_** &_param_9)
- virtual int **SRMv2__srmPurgeFromSpace** (**SRMv2__srmPurgeFromSpaceRequest** ∗srmPurgeFromSpaceRequest, struct **SRMv2__srmPurgeFromSpaceResponse_** &_param_10)
- virtual int **SRMv2__srmGetSpaceTokens** (**SRMv2__srmGetSpaceTokensRequest** ∗srmGetSpaceTokensRequest, struct **SRMv2__srmGetSpaceTokensResponse_** &_param_11)
- virtual int **SRMv2__srmSetPermission** (**SRMv2__srmSetPermissionRequest** ∗srmSetPermissionRequest, struct **SRMv2__srmSetPermissionResponse_** &_param_12)
- virtual int **SRMv2__srmCheckPermission** (**SRMv2__srmCheckPermissionRequest** ∗srmCheckPermissionRequest, struct **SRMv2__srmCheckPermissionResponse_** &_param_13)
- virtual int **SRMv2__srmGetPermission** (**SRMv2__srmGetPermissionRequest** ∗srmGetPermissionRequest, struct **SRMv2__srmGetPermissionResponse_** &_param_14)
- virtual int **SRMv2__srmMkdir** (**SRMv2__srmMkdirRequest** ∗srmMkdirRequest, struct **SRMv2__srmMkdirResponse_** &_param_15)
- virtual int **SRMv2__srmRmdir** (**SRMv2__srmRmdirRequest** ∗srmRmdirRequest, struct **SRMv2__srmRmdirResponse_** &_param_16)
- virtual int **SRMv2__srmRm** (**SRMv2__srmRmRequest** ∗srmRmRequest, struct **SRMv2__srmRmResponse_** &_param_17)
- virtual int **SRMv2__srmLs** (**SRMv2__srmLsRequest** ∗srmLsRequest, struct **SRMv2__srmLsResponse_** &_param_18)
- virtual int **SRMv2__srmStatusOfLsRequest** (**SRMv2__srmStatusOfLsRequestRequest** ∗srmStatusOfLsRequestRequest, struct **SRMv2__srmStatusOfLsRequestResponse_** &_param_19)
- virtual int **SRMv2__srmMv** (**SRMv2__srmMvRequest** ∗srmMvRequest, struct **SRMv2__srmMvResponse_** &_param_20)
- virtual int **SRMv2__srmPrepareToGet** (**SRMv2__srmPrepareToGetRequest** ∗srmPrepareToGetRequest, struct **SRMv2__srmPrepareToGetResponse_** &_param_21)
- virtual int **SRMv2__srmStatusOfGetRequest** (**SRMv2__srmStatusOfGetRequestRequest** ∗srmStatusOfGetRequestRequest, struct **SRMv2__srmStatusOfGetRequestResponse_** &_param_22)
- virtual int **SRMv2__srmBringOnline** (**SRMv2__srmBringOnlineRequest** ∗srmBringOnlineRequest, struct **SRMv2__srmBringOnlineResponse_** &_param_23)
- virtual int **SRMv2__srmStatusOfBringOnlineRequest** (**SRMv2__srmStatusOfBringOnlineRequestRequest** ∗srmStatusOfBringOnlineRequestRequest, struct **SRMv2__srmStatusOfBringOnlineRequestResponse_** &_param_24)

- virtual int **SRMv2__srmPrepareToPut** (**SRMv2__srmPrepareToPutRequest** ∗srmPrepareToPutRequest, struct **SRMv2__srmPrepareToPutResponse_** &_param_25)
- virtual int **SRMv2__srmStatusOfPutRequest** (**SRMv2__srmStatusOfPutRequestRequest** ∗srmStatusOfPutRequestRequest, struct **SRMv2__srmStatusOfPutRequestResponse_** &_param_26)
- virtual int **SRMv2__srmCopy** (**SRMv2__srmCopyRequest** ∗srmCopyRequest, struct **SRMv2__srmCopyResponse_** &_param_27)
- virtual int **SRMv2__srmStatusOfCopyRequest** (**SRMv2__srmStatusOfCopyRequestRequest** ∗srmStatusOfCopyRequestRequest, struct **SRMv2__srmStatusOfCopyRequestResponse_** &_param_28)
- virtual int **SRMv2__srmReleaseFiles** (**SRMv2__srmReleaseFilesRequest** ∗srmReleaseFilesRequest, struct **SRMv2__srmReleaseFilesResponse_** &_param_29)
- virtual int **SRMv2__srmPutDone** (**SRMv2__srmPutDoneRequest** ∗srmPutDoneRequest, struct **SRMv2__srmPutDoneResponse_** &_param_30)
- virtual int **SRMv2__srmAbortRequest** (**SRMv2__srmAbortRequestRequest** ∗srmAbortRequestRequest, struct **SRMv2__srmAbortRequestResponse_** &_param_31)
- virtual int **SRMv2__srmAbortFiles** (**SRMv2__srmAbortFilesRequest** ∗srmAbortFilesRequest, struct **SRMv2__srmAbortFilesResponse_** &_param_32)
- virtual int **SRMv2__srmSuspendRequest** (**SRMv2__srmSuspendRequestRequest** ∗srmSuspendRequestRequest, struct **SRMv2__srmSuspendRequestResponse_** &_param_33)
- virtual int **SRMv2__srmResumeRequest** (**SRMv2__srmResumeRequestRequest** ∗srmResumeRequestRequest, struct **SRMv2__srmResumeRequestResponse_** &_param_34)
- virtual int **SRMv2__srmGetRequestSummary** (**SRMv2__srmGetRequestSummaryRequest** ∗srmGetRequestSummaryRequest, struct **SRMv2__srmGetRequestSummaryResponse_** &_param_35)
- virtual int **SRMv2__srmExtendFileLifeTime** (**SRMv2__srmExtendFileLifeTimeRequest** ∗srmExtendFileLifeTimeRequest, struct **SRMv2__srmExtendFileLifeTimeResponse_** &_param_36)
- virtual int **SRMv2__srmGetRequestTokens** (**SRMv2__srmGetRequestTokensRequest** ∗srmGetRequestTokensRequest, struct **SRMv2__srmGetRequestTokensResponse_** &_param_37)
- virtual int **SRMv2__srmGetTransferProtocols** (**SRMv2__srmGetTransferProtocolsRequest** ∗srmGetTransferProtocolsRequest, struct **SRMv2__srmGetTransferProtocolsResponse_** &_param_38)
- virtual int **SRMv2__srmPing** (**SRMv2__srmPingRequest** ∗srmPingRequest, struct **SRMv2__srmPingResponse_** &_param_39)

Data Fields

- struct **soap** ∗ **soap**
- const char ∗ **endpoint**

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

- srm2_2_soapsrmSoapBindingProxy.h

8.90 srmSoapBindingService Class Reference

Public Member Functions

- virtual SOAP_SOCKET **bind** (const char ∗host, int port, int backlog)

- virtual SOAP_SOCKET **accept** ()
- virtual int **serve** ()

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

- srm2_2_soapsrmSoapBindingObject.h

8.91 SRMURL Class Reference

Public Member Functions

- **SRMURL** (std::string url)
- const std::string & **Endpoint** (void) const
- void **SetSRMVersion** (const std::string &version)
- const std::string & **FileName** (void) const
- std::string **ContactURL** (void) const
- std::string **BaseURL** (void) const
- std::string **ShortURL** (void) const
- std::string **FullURL** (void) const
- bool **PortDefined** ()

8.91.1 Constructor & Destructor Documentation

8.91.1.1 SRMURL::SRMURL (std::string *url*)

Examples shown for functions below assume the object was initiated with srm://srm.ndgf.org/pnfs/ndgf.org/data/atlas/disk/user/user.mlassnig.dataset.1/dummyfile3

8.91.2 Member Function Documentation

8.91.2.1 std::string SRMURL::BaseURL (void) const

eg srm://srm.ndgf.org:8443/srm/managerv2?SFN=

8.91.2.2 std::string SRMURL::ContactURL (void) const

eg httpg://srm.ndgf.org:8443/srm/managerv2

8.91.2.3 const std::string& SRMURL::Endpoint (void) const [inline]

eg /srm/managerv2

8.91.2.4 const std::string& SRMURL::FileName (void) const [inline]

eg pnfs/ndgf.org/data/atlas/disk/user/user.mlassnig.dataset.1/dummyfile3

8.91.2.5 std::string SRMURL::FullURL (void) const

eg srm://srm.ndgf.org:8443/srm/managerv2?SFN=pnfs/ndgf.org/data/atlas/disk/user/user.mlassnig.dataset.1/dummyfile3

8.91.2.6 bool SRMURL::PortDefined ( ) [inline]

Was the port number given in the constructor?

8.91.2.7 void SRMURL::SetSRMVersion (const std::string & *version*)

Possible values of version are "1" and "2.2"

8.91.2.8 std::string SRMURL::ShortURL (void) const

eg srm://srm.ndgf.org:8443/pnfs/ndgf.org/data/atlas/disk/user/user.mlassnig.dataset.1/dummyfile3

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

- SRMURL.h

8.92 SRMv1Meth__advisoryDelete Struct Reference

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

- srm1_soapStub.h

8.93 SRMv1Meth__advisoryDeleteResponse Struct Reference

Operation response struct "SRMv1Meth__advisoryDeleteResponse" of service binding "ISRM" operation "SRMv1Meth__advisoryDelete".

`#include <srm1_soap.h>`

8.93.1 Detailed Description

Operation response struct "SRMv1Meth__advisoryDeleteResponse" of service binding "ISRM" operation "SRMv1Meth__advisoryDelete".

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

- srm1_soap.h

8.94 SRMv1Meth__copy Struct Reference

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

- srm1_soapStub.h

8.95 SRMv1Meth__copyResponse Struct Reference

Operation response struct "SRMv1Meth__copyResponse" of service binding "ISRM" operation "SRMv1Meth__copy".

`#include <srm1_soap.h>`

8.95.1 Detailed Description

Operation response struct "SRMv1Meth__copyResponse" of service binding "ISRM" operation "SRMv1Meth__copy".

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

- srm1_soap.h
- srm1_soapStub.h

8.96 SRMv1Meth__get Struct Reference

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

- srm1_soapStub.h

8.97 SRMv1Meth__getEstGetTime Struct Reference

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

- srm1_soapStub.h

8.98 SRMv1Meth__getEstGetTimeResponse Struct Reference

Operation response struct "SRMv1Meth__getEstGetTimeResponse" of service binding "ISRM" operation "SRMv1Meth__getEstGetTime".

`#include <srm1_soap.h>`

8.98.1 Detailed Description

Operation response struct "SRMv1Meth__getEstGetTimeResponse" of service binding "ISRM" operation "SRMv1Meth__getEstGetTime".

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

- srm1_soap.h
- srm1_soapStub.h

8.99 SRMv1Meth__getEstPutTime Struct Reference

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

- srm1_soapStub.h

8.100 SRMv1Meth__getEstPutTimeResponse Struct Reference

Operation response struct "SRMv1Meth__getEstPutTimeResponse" of service binding "ISRM" operation "SRMv1Meth__getEstPutTime".

`#include <srm1_soap.h>`

8.100.1 Detailed Description

Operation response struct "SRMv1Meth__getEstPutTimeResponse" of service binding "ISRM" operation "SRMv1Meth__getEstPutTime".

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

- srm1_soap.h
- srm1_soapStub.h

8.101 SRMv1Meth__getFileMetaData Struct Reference

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

- srm1_soapStub.h

8.102 SRMv1Meth__getFileMetaDataResponse Struct Reference

Operation response struct "SRMv1Meth__getFileMetaDataResponse" of service binding "ISRM" operation "SRMv1Meth__getFileMetaData".

`#include <srm1_soap.h>`

8.102.1 Detailed Description

Operation response struct "SRMv1Meth__getFileMetaDataResponse" of service binding "ISRM" operation "SRMv1Meth__getFileMetaData".

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

- srm1_soap.h
- srm1_soapStub.h

8.103 SRMv1Meth__getProtocols Struct Reference

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

- srm1_soapStub.h

8.104 SRMv1Meth__getProtocolsResponse Struct Reference

Operation response struct "SRMv1Meth__getProtocolsResponse" of service binding "ISRM" operation "SRMv1Meth__getProtocols".

`#include <srm1_soap.h>`

8.104.1 Detailed Description

Operation response struct "SRMv1Meth__getProtocolsResponse" of service binding "ISRM" operation "SRMv1Meth__getProtocols".

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

- srm1_soap.h
- srm1_soapStub.h

8.105 SRMv1Meth__getRequestStatus Struct Reference

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

- srm1_soapStub.h

8.106 SRMv1Meth__getRequestStatusResponse Struct Reference

Operation response struct "SRMv1Meth__getRequestStatusResponse" of service binding "ISRM" operation "SRMv1Meth__getRequestStatus".

`#include <srm1_soap.h>`

8.106.1 Detailed Description

Operation response struct "SRMv1Meth__getRequestStatusResponse" of service binding "ISRM" operation "SRMv1Meth__getRequestStatus".

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

- srm1_soap.h
- srm1_soapStub.h

8.107 SRMv1Meth__getResponse Struct Reference

Operation response struct "SRMv1Meth__getResponse" of service binding "ISRM" operation "SRMv1Meth__get".

`#include <srm1_soap.h>`

8.107.1 Detailed Description

Operation response struct "SRMv1Meth__getResponse" of service binding "ISRM" operation "SRMv1Meth__get".

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

- srm1_soap.h
- srm1_soapStub.h

8.108 SRMv1Meth__mkPermanent Struct Reference

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

- srm1_soapStub.h

8.109 SRMv1Meth__mkPermanentResponse Struct Reference

Operation response struct "SRMv1Meth__mkPermanentResponse" of service binding "ISRM" operation "SRMv1Meth__mkPermanent".

`#include <srm1_soap.h>`

8.109.1 Detailed Description

Operation response struct "SRMv1Meth__mkPermanentResponse" of service binding "ISRM" operation "SRMv1Meth__mkPermanent".

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

- srm1_soap.h
- srm1_soapStub.h

8.110 SRMv1Meth__pin Struct Reference

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

- srm1_soapStub.h

8.111 SRMv1Meth__ping Struct Reference

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

- srm1_soapStub.h

8.112 SRMv1Meth__pingResponse Struct Reference

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

- srm1_soapStub.h

8.113 SRMv1Meth__pinResponse Struct Reference

Operation response struct "SRMv1Meth__pinResponse" of service binding "ISRM" operation "SRMv1Meth__pin".

`#include <srm1_soap.h>`

8.113.1 Detailed Description

Operation response struct "SRMv1Meth__pinResponse" of service binding "ISRM" operation "SRMv1Meth__pin".

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

- srm1_soap.h
- srm1_soapStub.h

8.114 SRMv1Meth__put Struct Reference

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

- srm1_soapStub.h

8.115 SRMv1Meth__putResponse Struct Reference

Operation response struct "SRMv1Meth__putResponse" of service binding "ISRM" operation "SRMv1Meth__put".

`#include <srm1_soap.h>`

8.115.1 Detailed Description

Operation response struct "SRMv1Meth__putResponse" of service binding "ISRM" operation "SRMv1Meth__put".

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

- srm1_soap.h
- srm1_soapStub.h

8.116 SRMv1Meth__setFileStatus Struct Reference

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

- srm1_soapStub.h

8.117 SRMv1Meth__setFileStatusResponse Struct Reference

Operation response struct "SRMv1Meth__setFileStatusResponse" of service binding "ISRM" operation "SRMv1Meth__setFileStatus".

`#include <srm1_soap.h>`

8.117.1 Detailed Description

Operation response struct "SRMv1Meth__setFileStatusResponse" of service binding "ISRM" operation "SRMv1Meth__setFileStatus".

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

- srm1_soap.h
- srm1_soapStub.h

8.118 SRMv1Meth__unPin Struct Reference

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

- srm1_soapStub.h

8.119 SRMv1Meth__unPinResponse Struct Reference

Operation response struct "SRMv1Meth__unPinResponse" of service binding "ISRM" operation "SRMv1Meth__unPin".

`#include <srm1_soap.h>`

8.119.1 Detailed Description

Operation response struct "SRMv1Meth__unPinResponse" of service binding "ISRM" operation "SRMv1Meth__unPin".

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

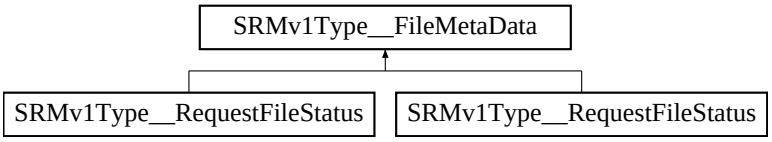
- srm1_soap.h
- srm1_soapStub.h

8.120 SRMv1Type__FileMetaData Class Reference

"http://www.themindelectric.com/package/diskCacheV111.srm/":FileMetaData is a complexType.

`#include <srm1_soap.h>`

Inheritance diagram for SRMv1Type__FileMetaData:



Data Fields

- char * **SURL**
- LONG64 **size**
- char * **owner**
- char * **group**
- int **permMode**
- char * **checksumType**
- char * **checksumValue**
- bool **isPinned**
- bool **isPermanent**
- bool **isCached**
- struct **soap** * **soap**

8.120.1 Detailed Description

"http://www.themindelectric.com/package/diskCacheV111.srm/":FileMetaData is a complexType.

8.120.2 Field Documentation

8.120.2.1 char * SRMv1Type__FileMetaData::checksumType

Element checksumType of type xs:string.

Nullable pointer.

8.120.2.2 char * SRMv1Type__FileMetaData::checksumValue

Element checksumValue of type xs:string.

Nullable pointer.

8.120.2.3 char * SRMv1Type__FileMetaData::group

Element group of type xs:string.

Nullable pointer.

8.120.2.4 bool SRMv1Type__FileMetaData::isCached

Element isCached of type xs:boolean.

Required element.

8.120.2.5 bool SRMv1Type__FileMetaData::isPermanent

Element isPermanent of type xs:boolean.

Required element.

8.120.2.6 bool SRMv1Type__FileMetaData::isPinned

Element isPinned of type xs:boolean.

Required element.

8.120.2.7 char * SRMv1Type__FileMetaData::owner

Element owner of type xs:string.

Nullable pointer.

8.120.2.8 int SRMv1Type__FileMetaData::permMode

Element permMode of type xs:int.

Required element.

8.120.2.9 LONG64 SRMv1Type__FileMetaData::size

Element size of type xs:long.

Required element.

8.120.2.10 char * SRMv1Type__FileMetaData::SURL

Element SURL of type xs:string.

Nullable pointer.

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

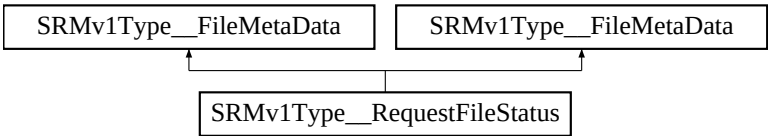
- srm1_soap.h
- srm1_soapStub.h

8.121 SRMv1Type__RequestFileStatus Class Reference

"http://www.themindelectric.com/package/diskCacheV111.srm/":RequestFileStatus is a complexType with complexContent extension of "http://www.themindelectric.com/package/diskCacheV111.srm/":FileMetaData.

`#include <srm1_soap.h>`

Inheritance diagram for SRMv1Type__RequestFileStatus:



Data Fields

- char * **state**
- int **fileId**
- char * **TURL**
- int **estSecondsToStart**
- char * **sourceFilename**
- char * **destFilename**
- int **queueOrder**

8.121.1 Detailed Description

"http://www.themindelectric.com/package/diskCacheV111.srm/":RequestFileStatus is a complexType with complexContent extension of "http://www.themindelectric.com/package/diskCacheV111.srm/":FileMetaData.

8.121.2 Field Documentation

8.121.2.1 char * SRMv1Type__RequestFileStatus::destFilename

Element destFilename of type xs:string.

Nullable pointer.

8.121.2.2 int SRMv1Type__RequestFileStatus::estSecondsToStart

Element estSecondsToStart of type xs:int.

Required element.

8.121.2.3 int SRMv1Type__RequestFileStatus::fileId

Element fileId of type xs:int.

Required element.

8.121.2.4 int SRMv1Type__RequestFileStatus::queueOrder

Element queueOrder of type xs:int.

Required element.

8.121.2.5 char * SRMv1Type__RequestFileStatus::sourceFilename

Element sourceFilename of type xs:string.

Nullable pointer.

8.121.2.6 char * SRMv1Type__RequestFileStatus::state

Element state of type xs:string.

Nullable pointer.

8.121.2.7 char * SRMv1Type__RequestFileStatus::TURL

Element TURL of type xs:string.

Nullable pointer.

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

- srm1_soap.h
- srm1_soapStub.h

8.122 SRMv1Type__RequestStatus Class Reference

"http://www.themindelectric.com/package/diskCacheV111.srm/":RequestStatus is a complexType.

`#include <srm1_soap.h>`

Data Fields

- int **requestId**
- char * **type**
- char * **state**
- time_t * **submitTime**
- time_t * **startTime**
- time_t * **finishTime**
- int **estTimeToStart**
- **ArrayOfRequestFileStatus** * **fileStatuses**
- char * **errorMessage**
- int **retryDeltaTime**
- struct **soap** * **soap**

8.122.1 Detailed Description

"http://www.themindelectric.com/package/diskCacheV111.srm/":RequestStatus is a complexType.

8.122.2 Field Documentation

8.122.2.1 char * SRMv1Type__RequestStatus::errorMessage

Element errorMessage of type xs:string.

Nullable pointer.

8.122.2.2 int SRMv1Type__RequestStatus::estTimeToStart

Element estTimeToStart of type xs:int.

Required element.

8.122.2.3 ArrayOfRequestFileStatus* SRMv1Type__RequestStatus::fileStatuses

Element fileStatuses of type "http://www.themindelectric.com/package/diskCacheV111.srm/":**ArrayOfRequestFileStatus** (p. 41).

Nullable pointer.

8.122.2.4 time_t * SRMv1Type__RequestStatus::finishTime

Element finishTime of type xs:dateTime.

Nullable pointer.

8.122.2.5 int SRMv1Type__RequestStatus::requestId

Element requestId of type xs:int.

Required element.

8.122.2.6 int SRMv1Type__RequestStatus::retryDeltaTime

Element retryDeltaTime of type xs:int.

Required element.

8.122.2.7 time_t * SRMv1Type__RequestStatus::startTime

Element startTime of type xs:dateTime.

Nullable pointer.

8.122.2.8 char * SRMv1Type__RequestStatus::state

Element state of type xs:string.

Nullable pointer.

8.122.2.9 time_t * SRMv1Type__RequestStatus::submitTime

Element submitTime of type xs:dateTime.

Nullable pointer.

8.122.2.10 char * SRMv1Type__RequestStatus::type

Element type of type xs:string.

Nullable pointer.

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

- srm1_soap.h
- srm1_soapStub.h

8.123 SRMv2__ArrayOfAnyURI Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizeurlArray**
- xsd__anyURI * **urlArray**
- struct **soap** * **soap**

8.123.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI is a complexType.

8.123.2 Field Documentation

8.123.2.1 xsd__anyURI* SRMv2__ArrayOfAnyURI::urlArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.124 SRMv2__ArrayOfString Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfString is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestringArray**
- char ** **stringArray**
- struct **soap** * **soap**

8.124.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfString is a complexType.

8.124.2 Field Documentation

8.124.2.1 char ** SRMv2__ArrayOfString::stringArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.125 SRMv2__ArrayOfTBringOnlineRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTBringOnlineRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestatusArray**
- **SRMv2__TBringOnlineRequestFileStatus** ** **statusArray**
- struct **soap** * **soap**

8.125.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTBringOnlineRequestFileStatus is a complexType.

8.125.2 Field Documentation

8.125.2.1 SRMv2__TBringOnlineRequestFileStatus ** SRMv2__ArrayOfTBringOnlineRequestFileStatus::statusArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.126 SRMv2__ArrayOfTCopyFileRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyFileRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizerequestArray**
- **SRMv2__TCopyFileRequest** ∗∗ **requestArray**
- struct **soap** ∗ **soap**

8.126.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyFileRequest is a complexType.

8.126.2 Field Documentation

8.126.2.1 SRMv2__TCopyFileRequest ∗∗ SRMv2__ArrayOfTCopyFileRequest::requestArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.127 SRMv2__ArrayOfTCopyRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestatusArray**
- **SRMv2__TCopyRequestFileStatus** ∗∗ **statusArray**
- struct **soap** ∗ **soap**

8.127.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyRequestFileStatus is a complexType.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.128 SRMv2__ArrayOfTExtraInfo Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizeextraInfoArray**
- **SRMv2__TExtraInfo** ∗∗ **extraInfoArray**
- struct **soap** ∗ **soap**

8.128.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo is a complexType.

8.128.2 Field Documentation

8.128.2.1 SRMv2__TExtraInfo ∗∗ SRMv2__ArrayOfTExtraInfo::extraInfoArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.129 SRMv2__ArrayOfTGetFileRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetFileRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizerequestArray**
- **SRMv2__TGetFileRequest** ∗∗ **requestArray**
- struct **soap** ∗ **soap**

8.129.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetFileRequest is a complexType.

8.129.2 Field Documentation

8.129.2.1 SRMv2__TGetFileRequest ** SRMv2__ArrayOfTGetFileRequest::requestArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.130 SRMv2__ArrayOfTGetRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestatusArray**
- **SRMv2__TGetRequestFileStatus** ** **statusArray**
- struct **soap** * **soap**

8.130.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus is a complexType.

8.130.2 Field Documentation

8.130.2.1 SRMv2__TGetRequestFileStatus ** SRMv2__-ArrayOfTGetRequestFileStatus::statusArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.131 SRMv2__ArrayOfTGroupPermission Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizegroupPermissionArray**
- **SRMv2__TGroupPermission** ∗∗ **groupPermissionArray**
- struct **soap** ∗ **soap**

8.131.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission is a complexType.

8.131.2 Field Documentation

8.131.2.1 SRMv2__TGroupPermission ∗∗ SRMv2__ArrayOfTGroupPermission::groupPermissionArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.132 SRMv2__ArrayOfTMetaDataPathDetail Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizepathDetailArray**
- **SRMv2__TMetaDataPathDetail** ∗∗ **pathDetailArray**
- struct **soap** ∗ **soap**

8.132.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail is a complexType.

8.132.2 Field Documentation

8.132.2.1 SRMv2__TMetaDataPathDetail ** SRMv2__-ArrayOfTMetaDataPathDetail::pathDetailArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.133 SRMv2__ArrayOfTMetaDataSpace Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataSpace is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizespaceDataArray**
- **SRMv2__TMetaDataSpace** ** **spaceDataArray**
- struct **soap** * **soap**

8.133.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataSpace is a complexType.

8.133.2 Field Documentation

8.133.2.1 SRMv2__TMetaDataSpace ** SRMv2__ArrayOfTMetaDataSpace::spaceDataArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.134 SRMv2__ArrayOfTPermissionReturn Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTPermissionReturn is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizepermissionArray**
- **SRMv2__TPermissionReturn** ∗∗ **permissionArray**
- struct **soap** ∗ **soap**

8.134.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTPermissionReturn is a complexType.

8.134.2 Field Documentation

8.134.2.1 SRMv2__TPermissionReturn ∗∗ SRMv2__ArrayOfTPermissionReturn::permissionArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.135 SRMv2__ArrayOfTPutFileRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutFileRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizerequestArray**
- **SRMv2__TPutFileRequest** ∗∗ **requestArray**
- struct **soap** ∗ **soap**

8.135.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutFileRequest is a complexType.

8.135.2 Field Documentation

8.135.2.1 SRMv2__TPutFileRequest ∗∗ SRMv2__ArrayOfTPutFileRequest::requestArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.136 SRMv2__ArrayOfTPutRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestatusArray**
- **SRMv2__TPutRequestFileStatus** ∗∗ **statusArray**
- struct **soap** ∗ **soap**

8.136.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus is a complexType.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.137 SRMv2__ArrayOfTRequestSummary Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestSummary is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizesummaryArray**
- **SRMv2__TRequestSummary** ∗∗ **summaryArray**
- struct **soap** ∗ **soap**

8.137.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestSummary is a complexType.

8.137.2 Field Documentation

8.137.2.1 SRMv2__TRequestSummary ∗∗ SRMv2__ArrayOfTRequestSummary::summaryArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.138 SRMv2__ArrayOfTRequestTokenReturn Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestTokenReturn is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizetokenArray**
- **SRMv2__TRequestTokenReturn** ∗∗ **tokenArray**
- struct **soap** ∗ **soap**

8.138.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestTokenReturn is a complexType.

8.138.2 Field Documentation

8.138.2.1 SRMv2__TRequestTokenReturn ∗∗ SRMv2__ArrayOfTRequestTokenReturn::tokenArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.139 SRMv2__ArrayOfTSupportedTransferProtocol Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSupportedTransferProtocol is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizeprotocolArray**
- **SRMv2__TSupportedTransferProtocol** ∗∗ **protocolArray**
- struct **soap** ∗ **soap**

8.139.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSupportedTransferProtocol is a complexType.

8.139.2 Field Documentation

8.139.2.1 SRMv2__TSupportedTransferProtocol ** SRMv2__ArrayOfTSupportedTransferProtocol::protocolArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.140 SRMv2__ArrayOfTSURLLifetimeReturnStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLLifetimeReturnStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestatusArray**
- **SRMv2__TSURLLifetimeReturnStatus** ** **statusArray**
- struct **soap** * **soap**

8.140.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLLifetimeReturnStatus is a complexType.

8.140.2 Field Documentation

8.140.2.1 SRMv2__TSURLLifetimeReturnStatus ** SRMv2__ArrayOfTSURLLifetimeReturnStatus::statusArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.141 SRMv2__ArrayOfTSURLPermissionReturn Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLPermissionReturn is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizesurlPermissionArray**
- **SRMv2__TSURLPermissionReturn** ** **surlPermissionArray**
- struct **soap** * **soap**

8.141.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLPermissionReturn is a complexType.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.142 SRMv2__ArrayOfTSURLReturnStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizestatusArray**
- **SRMv2__TSURLReturnStatus** ** **statusArray**
- struct **soap** * **soap**

8.142.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus is a complexType.

8.142.2 Field Documentation

8.142.2.1 SRMv2__TSURLReturnStatus ** SRMv2__ArrayOfTSURLReturnStatus::statusArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.143 SRMv2__ArrayOfTUserPermission Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizeuserPermissionArray**
- **SRMv2__TUserPermission** ∗∗ **userPermissionArray**
- struct **soap** ∗ **soap**

8.143.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission is a complexType.

8.143.2 Field Documentation

8.143.2.1 SRMv2__TUserPermission ∗∗ SRMv2__ArrayOfTUserPermission::userPermissionArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.144 SRMv2__ArrayOfUnsignedLong Class Reference

"http://srm.lbl.gov/StorageResourceManager":ArrayOfUnsignedLong is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- int **__sizeunsignedLongArray**
- ULONG64 ∗ **unsignedLongArray**
- struct **soap** ∗ **soap**

8.144.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":ArrayOfUnsignedLong is a complexType.

8.144.2 Field Documentation

8.144.2.1 ULONG64 * SRMv2__ArrayOfUnsignedLong::unsignedLongArray

Pointer to array of length 1..unbounded.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.145 SRMv2__srmAbortFiles Struct Reference

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

- srm2_2_soapStub.h

8.146 SRMv2__srmAbortFilesRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmAbortFilesRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- char * **authorizationID**
- struct **soap** * **soap**

8.146.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmAbortFilesRequest is a complexType.

8.146.2 Field Documentation

8.146.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmAbortFilesRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.146.2.2 char * SRMv2__srmAbortFilesRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.146.2.3 char * SRMv2__srmAbortFilesRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.147 SRMv2__srmAbortFilesResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmAbortFilesResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.147.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmAbortFilesResponse is a complexType.

8.147.2 Field Documentation

8.147.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmAbortFilesResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.147.2.2 SRMv2__TReturnStatus * SRMv2__srmAbortFilesResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.148 SRMv2__srmAbortFilesResponse_ Struct Reference

Operation response struct "SRMv2__srmAbortFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmAbortFiles".

`#include <srm2_2_soap.h>`

8.148.1 Detailed Description

Operation response struct "SRMv2__srmAbortFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmAbortFiles".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.149 SRMv2__srmAbortRequest Struct Reference

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

- srm2_2_soapStub.h

8.150 SRMv2__srmAbortRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmAbortRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- struct **soap** * **soap**

8.150.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmAbortRequestRequest is a complexType.

8.150.2 Field Documentation

8.150.2.1 char * SRMv2__srmAbortRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.150.2.2 char * SRMv2__srmAbortRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.151 SRMv2__srmAbortRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmAbortRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- struct **soap * soap**

8.151.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmAbortRequestResponse is a complexType.

8.151.2 Field Documentation

8.151.2.1 SRMv2__TReturnStatus * SRMv2__srmAbortRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.152 SRMv2__srmAbortRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmAbortRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmAbortRequest".

`#include <srm2_2_soap.h>`

8.152.1 Detailed Description

Operation response struct "SRMv2__srmAbortRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmAbortRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.153 SRMv2__srmBringOnline Struct Reference

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

- srm2_2_soapStub.h

8.154 SRMv2__srmBringOnlineRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmBringOnlineRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfTGetFileRequest** * **arrayOfFileRequests**
- char * **userRequestDescription**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- enum SRMv2__TFileStorageType * **desiredFileStorageType**
- int * **desiredTotalRequestTime**
- int * **desiredLifeTime**
- char * **targetSpaceToken**
- **SRMv2__TRetentionPolicyInfo** * **targetFileRetentionPolicyInfo**
- **SRMv2__TTransferParameters** * **transferParameters**
- int * **deferredStartTime**
- struct **soap** * **soap**

8.154.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmBringOnlineRequest is a complexType.

8.154.2 Field Documentation

8.154.2.1 SRMv2__ArrayOfTGetFileRequest * SRMv2__srmBringOnlineRequest::arrayOfFileRequests

Element arrayOfFileRequests of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetFileRequest.

Required element.

8.154.2.2 char * SRMv2__srmBringOnlineRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.154.2.3 int * SRMv2__srmBringOnlineRequest::deferredStartTime

Element deferredStartTime of type xs:int.

Nullable pointer.

8.154.2.4 enum SRMv2__TFileStorageType * SRMv2__srmBringOnlineRequest::desiredFileStorageType

Element desiredFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType.

Nullable pointer.

8.154.2.5 int * SRMv2__srmBringOnlineRequest::desiredLifeTime

Element desiredLifeTime of type xs:int.

Nullable pointer.

8.154.2.6 int * SRMv2__srmBringOnlineRequest::desiredTotalRequestTime

Element desiredTotalRequestTime of type xs:int.

Nullable pointer.

8.154.2.7 SRMv2__ArrayOfTExtraInfo * SRMv2__srmBringOnlineRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.154.2.8 SRMv2__TRetentionPolicyInfo * SRMv2__srmBringOnlineRequest::targetFileRetentionPolicyInfo

Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.154.2.9 char * SRMv2__srmBringOnlineRequest::targetSpaceToken

Element targetSpaceToken of type xs:string.

Nullable pointer.

8.154.2.10 SRMv2__TTransferParameters * SRMv2__srmBringOnlineRequest::transferParameters

Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters.

Nullable pointer.

8.154.2.11 char * SRMv2__srmBringOnlineRequest::userRequestDescription

Element userRequestDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.155 SRMv2__srmBringOnlineResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmBringOnlineResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- **SRMv2__ArrayOfTBringOnlineRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- int * **remainingDeferredStartTime**
- struct **soap** * **soap**

8.155.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmBringOnlineResponse is a complexType.

8.155.2 Field Documentation

8.155.2.1 SRMv2__ArrayOfTBringOnlineRequestFileStatus * SRMv2__srmBringOnlineResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTBringOnlineRequestFileStatus.

Nullable pointer.

8.155.2.2 int * SRMv2__srmBringOnlineResponse::remainingDeferredStartTime

Element remainingDeferredStartTime of type xs:int.

Nullable pointer.

8.155.2.3 int * SRMv2__srmBringOnlineResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.155.2.4 char * SRMv2__srmBringOnlineResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.155.2.5 SRMv2__TReturnStatus * SRMv2__srmBringOnlineResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.156 SRMv2__srmBringOnlineResponse_ Struct Reference

Operation response struct "SRMv2__srmBringOnlineResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmBringOnline".

`#include <srm2_2_soap.h>`

8.156.1 Detailed Description

Operation response struct "SRMv2__srmBringOnlineResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmBringOnline".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.157 SRMv2__srmChangeSpaceForFiles Struct Reference

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

- srm2_2_soapStub.h

8.158 SRMv2__srmChangeSpaceForFilesRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmChangeSpaceForFilesRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**

- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- char * **targetSpaceToken**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.158.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmChangeSpaceForFilesRequest is a complexType.

8.158.2 Field Documentation

8.158.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmChangeSpaceForFilesRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.158.2.2 char * SRMv2__srmChangeSpaceForFilesRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.158.2.3 SRMv2__ArrayOfTExtraInfo * SRMv2__srmChangeSpaceForFilesRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.158.2.4 char * SRMv2__srmChangeSpaceForFilesRequest::targetSpaceToken

Element targetSpaceToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.159 SRMv2__srmChangeSpaceForFilesResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmChangeSpaceForFilesResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- int * **estimatedProcessingTime**
- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap** * **soap**

8.159.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmChangeSpaceForFilesResponse is a complexType.

8.159.2 Field Documentation

8.159.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmChangeSpaceForFilesResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.159.2.2 int * SRMv2__srmChangeSpaceForFilesResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int.

Nullable pointer.

8.159.2.3 char * SRMv2__srmChangeSpaceForFilesResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.159.2.4 SRMv2__TReturnStatus * SRMv2__srmChangeSpaceForFilesResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.160 SRMv2__srmChangeSpaceForFilesResponse_ Struct Reference

Operation response struct "SRMv2__srmChangeSpaceForFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmChangeSpaceForFiles".

`#include <srm2_2_soap.h>`

8.160.1 Detailed Description

Operation response struct "SRMv2__srmChangeSpaceForFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmChangeSpaceForFiles".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.161 SRMv2__srmCheckPermission Struct Reference

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

- srm2_2_soapStub.h

8.162 SRMv2__srmCheckPermissionRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmCheckPermissionRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- char * **authorizationID**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.162.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmCheckPermissionRequest is a complexType.

8.162.2 Field Documentation

8.162.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmCheckPermissionRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.162.2.2 char * SRMv2__srmCheckPermissionRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.162.2.3 SRMv2__ArrayOfTExtraInfo * SRMv2__srmCheckPermissionRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.163 SRMv2__srmCheckPermissionResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmCheckPermissionResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLPermissionReturn * arrayOfPermissions**
- struct **soap * soap**

8.163.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmCheckPermissionResponse is a complexType.

8.163.2 Field Documentation

8.163.2.1 SRMv2__ArrayOfTSURLPermissionReturn * SRMv2__srmCheckPermissionResponse::arrayOfPermissions

Element arrayOfPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLPermissionReturn.

Nullable pointer.

8.163.2.2 SRMv2__TReturnStatus * SRMv2__srmCheckPermissionResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.164 SRMv2__srmCheckPermissionResponse_ Struct Reference

Operation response struct "SRMv2__srmCheckPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmCheckPermission".

`#include <srm2_2_soap.h>`

8.164.1 Detailed Description

Operation response struct "SRMv2__srmCheckPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmCheckPermission".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.165 SRMv2__srmCopy Struct Reference

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

- srm2_2_soapStub.h

8.166 SRMv2__srmCopyRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmCopyRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfTCopyFileRequest** * **arrayOfFileRequests**
- char * **userRequestDescription**
- enum SRMv2__TOverwriteMode * **overwriteOption**
- int * **desiredTotalRequestTime**
- int * **desiredTargetSURLLifeTime**
- enum SRMv2__TFileStorageType * **targetFileStorageType**
- char * **targetSpaceToken**
- **SRMv2__TRetentionPolicyInfo** * **targetFileRetentionPolicyInfo**
- **SRMv2__ArrayOfTExtraInfo** * **sourceStorageSystemInfo**
- **SRMv2__ArrayOfTExtraInfo** * **targetStorageSystemInfo**
- struct **soap** * **soap**

8.166.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmCopyRequest is a complexType.

8.166.2 Field Documentation

8.166.2.1 SRMv2__ArrayOfTCopyFileRequest * SRMv2__srmCopyRequest::arrayOfFileRequests

Element arrayOfFileRequests of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyFileRequest.

Required element.

8.166.2.2 char * SRMv2__srmCopyRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.166.2.3 int * SRMv2__srmCopyRequest::desiredTargetSURLLifeTime

Element desiredTargetSURLLifeTime of type xs:int.

Nullable pointer.

8.166.2.4 int * SRMv2__srmCopyRequest::desiredTotalRequestTime

Element desiredTotalRequestTime of type xs:int.

Nullable pointer.

8.166.2.5 enum SRMv2__TOverwriteMode * SRMv2__srmCopyRequest::overwriteOption

Element overwriteOption of type "http://srm.lbl.gov/StorageResourceManager":TOverwriteMode.

Nullable pointer.

8.166.2.6 SRMv2__ArrayOfTExtraInfo * SRMv2__srmCopyRequest::sourceStorageSystemInfo

Element sourceStorageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.166.2.7 SRMv2__TRetentionPolicyInfo * SRMv2__srmCopyRequest::targetFileRetentionPolicyInfo

Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.166.2.8 enum SRMv2__TFileStorageType * SRMv2__srmCopyRequest::targetFileStorageType

Element targetFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType.

Nullable pointer.

8.166.2.9 char * SRMv2__srmCopyRequest::targetSpaceToken

Element targetSpaceToken of type xs:string.

Nullable pointer.

8.166.2.10 SRMv2__ArrayOfTExtraInfo * SRMv2__srmCopyRequest::targetStorageSystemInfo

Element targetStorageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.166.2.11 char * SRMv2__srmCopyRequest::userRequestDescription

Element userRequestDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.167 SRMv2__srmCopyResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmCopyResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- **SRMv2__ArrayOfTCopyRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- struct **soap** * **soap**

8.167.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmCopyResponse is a complexType.

8.167.2 Field Documentation

8.167.2.1 SRMv2__ArrayOfTCopyRequestFileStatus * SRMv2__srmCopyResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyRequestFileStatus.

Nullable pointer.

8.167.2.2 int * SRMv2__srmCopyResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.167.2.3 char * SRMv2__srmCopyResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.167.2.4 SRMv2__TReturnStatus * SRMv2__srmCopyResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.168 SRMv2__srmCopyResponse_ Struct Reference

Operation response struct "SRMv2__srmCopyResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmCopy".

`#include <srm2_2_soap.h>`

8.168.1 Detailed Description

Operation response struct "SRMv2__srmCopyResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmCopy".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.169 SRMv2__srmExtendFileLifeTime Struct Reference

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

- srm2_2_soapStub.h

8.170 SRMv2__srmExtendFileLifeTimeInSpace Struct Reference

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

- srm2_2_soapStub.h

8.171 SRMv2__srmExtendFileLifeTimeInSpaceRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **spaceToken**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- int * **newLifeTime**
- struct **soap** * **soap**

8.171.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceRequest is a complexType.

8.171.2 Field Documentation

8.171.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmExtendFileLifeTimeInSpaceRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.171.2.2 char * SRMv2__srmExtendFileLifeTimeInSpaceRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.171.2.3 int * SRMv2__srmExtendFileLifeTimeInSpaceRequest::newLifeTime

Element newLifeTime of type xs:int.

Nullable pointer.

8.171.2.4 char * SRMv2__srmExtendFileLifeTimeInSpaceRequest::spaceToken

Element spaceToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.172 SRMv2__srmExtendFileLifeTimeInSpaceResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLLifetimeReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.172.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceResponse is a complexType.

8.172.2 Field Documentation

8.172.2.1 SRMv2__ArrayOfTSURLLifetimeReturnStatus * SRMv2__srmExtendFileLifeTimeInSpaceResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLLifetimeReturnStatus.

Nullable pointer.

8.172.2.2 SRMv2__TReturnStatus * SRMv2__srmExtendFileLifeTimeInSpaceResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.173 SRMv2__srmExtendFileLifeTimeInSpaceResponse_ Struct Reference

Operation response struct "SRMv2__srmExtendFileLifeTimeInSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmExtendFileLifeTimeInSpace".

`#include <srm2_2_soap.h>`

8.173.1 Detailed Description

Operation response struct "SRMv2__srmExtendFileLifeTimeInSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmExtendFileLifeTimeInSpace".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.174 SRMv2__srmExtendFileLifeTimeRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **requestToken**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- int * **newFileLifeTime**
- int * **newPinLifeTime**
- struct **soap** * **soap**

8.174.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeRequest is a complexType.

8.174.2 Field Documentation

8.174.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmExtendFileLifeTimeRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.174.2.2 char * SRMv2__srmExtendFileLifeTimeRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.174.2.3 int * SRMv2__srmExtendFileLifeTimeRequest::newFileLifeTime

Element newFileLifeTime of type xs:int.

Nullable pointer.

8.174.2.4 int * SRMv2__srmExtendFileLifeTimeRequest::newPinLifeTime

Element newPinLifeTime of type xs:int.

Nullable pointer.

8.174.2.5 char * SRMv2__srmExtendFileLifeTimeRequest::requestToken

Element requestToken of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.175 SRMv2__srmExtendFileLifeTimeResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLLifetimeReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.175.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeResponse is a complexType.

8.175.2 Field Documentation

8.175.2.1 SRMv2__ArrayOfTSURLLifetimeReturnStatus * SRMv2__srmExtendFileLifeTimeResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLLifetimeReturnStatus.

Nullable pointer.

8.175.2.2 SRMv2__TReturnStatus * SRMv2__srmExtendFileLifeTimeResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.176 SRMv2__srmExtendFileLifeTimeResponse_ Struct Reference

Operation response struct "SRMv2__srmExtendFileLifeTimeResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmExtendFileLifeTime".

`#include <srm2_2_soap.h>`

8.176.1 Detailed Description

Operation response struct "SRMv2__srmExtendFileLifeTimeResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmExtendFileLifeTime".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.177 SRMv2__srmGetPermission Struct Reference

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

- srm2_2_soapStub.h

8.178 SRMv2__srmGetPermissionRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetPermissionRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.178.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetPermissionRequest is a complexType.

8.178.2 Field Documentation

8.178.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmGetPermissionRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.178.2.2 char * SRMv2__srmGetPermissionRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.178.2.3 SRMv2__ArrayOfTExtraInfo * SRMv2__srmGetPermissionRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.179 SRMv2__srmGetPermissionResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetPermissionResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTPermissionReturn * arrayOfPermissionReturns**
- struct **soap * soap**

8.179.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetPermissionResponse is a complexType.

8.179.2 Field Documentation

8.179.2.1 SRMv2__ArrayOfTPermissionReturn * SRMv2__srmGetPermissionResponse::arrayOfPermissionReturns

Element arrayOfPermissionReturns of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPermissionReturn.

Nullable pointer.

8.179.2.2 SRMv2__TReturnStatus * SRMv2__srmGetPermissionResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h

- srm2_2_soapStub.h

8.180 SRMv2__srmGetPermissionResponse_ Struct Reference

Operation response struct "SRMv2__srmGetPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetPermission".

`#include <srm2_2_soap.h>`

8.180.1 Detailed Description

Operation response struct "SRMv2__srmGetPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetPermission".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.181 SRMv2__srmGetRequestSummary Struct Reference

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

- srm2_2_soapStub.h

8.182 SRMv2__srmGetRequestSummaryRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestSummaryRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__ArrayOfString** * **arrayOfRequestTokens**
- char * **authorizationID**
- struct **soap** * **soap**

8.182.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestSummaryRequest is a complexType.

8.182.2 Field Documentation

8.182.2.1 SRMv2__ArrayOfString * SRMv2__srmGetRequestSummaryRequest::arrayOfRequestTokens

Element arrayOfRequestTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString.

Required element.

8.182.2.2 char * SRMv2__srmGetRequestSummaryRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.183 SRMv2__srmGetRequestSummaryResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestSummaryResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTRequestSummary * arrayOfRequestSummaries**
- struct **soap * soap**

8.183.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestSummaryResponse is a complexType.

8.183.2 Field Documentation

8.183.2.1 SRMv2__ArrayOfTRequestSummary * SRMv2__srmGetRequestSummaryResponse::arrayOfRequestSummaries

Element arrayOfRequestSummaries of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestSummary.

Nullable pointer.

8.183.2.2 SRMv2__TReturnStatus * SRMv2__srmGetRequestSummaryResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.184 SRMv2__srmGetRequestSummaryResponse_ Struct Reference

Operation response struct "SRMv2__srmGetRequestSummaryResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetRequestSummary".

`#include <srm2_2_soap.h>`

8.184.1 Detailed Description

Operation response struct "SRMv2__srmGetRequestSummaryResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetRequestSummary".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.185 SRMv2__srmGetRequestTokens Struct Reference

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

- srm2_2_soapStub.h

8.186 SRMv2__srmGetRequestTokensRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestTokensRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **userRequestDescription**
- char * **authorizationID**
- struct **soap** * **soap**

8.186.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestTokensRequest is a complexType.

8.186.2 Field Documentation

8.186.2.1 char * SRMv2__srmGetRequestTokensRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.186.2.2 char * SRMv2__srmGetRequestTokensRequest::userRequestDescription

Element userRequestDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.187 SRMv2__srmGetRequestTokensResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestTokensResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTRequestTokenReturn * arrayOfRequestTokens**
- struct **soap * soap**

8.187.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetRequestTokensResponse is a complexType.

8.187.2 Field Documentation

8.187.2.1 SRMv2__ArrayOfTRequestTokenReturn * SRMv2__srmGetRequestTokensResponse::arrayOfRequestTokens

Element arrayOfRequestTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestTokenReturn.

Nullable pointer.

8.187.2.2 SRMv2__TReturnStatus * SRMv2__srmGetRequestTokensResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.188 SRMv2__srmGetRequestTokensResponse_ Struct Reference

Operation response struct "SRMv2__srmGetRequestTokensResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetRequestTokens".

`#include <srm2_2_soap.h>`

8.188.1 Detailed Description

Operation response struct "SRMv2__srmGetRequestTokensResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetRequestTokens".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.189 SRMv2__srmGetSpaceMetaData Struct Reference

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

- srm2_2_soapStub.h

8.190 SRMv2__srmGetSpaceMetaDataRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceMetaDataRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfString** * **arrayOfSpaceTokens**
- struct **soap** * **soap**

8.190.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceMetaDataRequest is a complexType.

8.190.2 Field Documentation

8.190.2.1 SRMv2__ArrayOfString * SRMv2__srmGetSpaceMetaDataRequest::arrayOfSpaceTokens

Element arrayOfSpaceTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString.

Required element.

8.190.2.2 char * SRMv2__srmGetSpaceMetaDataRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.191 SRMv2__srmGetSpaceMetaDataResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceMetaDataResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTMetaDataSpace * arrayOfSpaceDetails**
- struct **soap * soap**

8.191.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceMetaDataResponse is a complexType.

8.191.2 Field Documentation

8.191.2.1 SRMv2__ArrayOfTMetaDataSpace * SRMv2__srmGetSpaceMetaDataResponse::arrayOfSpaceDetails

Element arrayOfSpaceDetails of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataSpace.

Nullable pointer.

8.191.2.2 SRMv2__TReturnStatus * SRMv2__srmGetSpaceMetaDataResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.192 SRMv2__srmGetSpaceMetaDataResponse_ Struct Reference

Operation response struct "SRMv2__srmGetSpaceMetaDataResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetSpaceMetaData".

`#include <srm2_2_soap.h>`

8.192.1 Detailed Description

Operation response struct "SRMv2__srmGetSpaceMetaDataResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetSpaceMetaData".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.193 SRMv2__srmGetSpaceTokens Struct Reference

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

- srm2_2_soapStub.h

8.194 SRMv2__srmGetSpaceTokensRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceTokensRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **userSpaceTokenDescription**
- char * **authorizationID**
- struct **soap** * **soap**

8.194.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceTokensRequest is a complexType.

8.194.2 Field Documentation

8.194.2.1 char * SRMv2__srmGetSpaceTokensRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.194.2.2 char * SRMv2__srmGetSpaceTokensRequest::userSpaceTokenDescription

Element userSpaceTokenDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.195 SRMv2__srmGetSpaceTokensResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceTokensResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfString * arrayOfSpaceTokens**
- struct **soap * soap**

8.195.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetSpaceTokensResponse is a complexType.

8.195.2 Field Documentation

8.195.2.1 SRMv2__ArrayOfString * SRMv2__srmGetSpaceTokensResponse::arrayOfSpaceTokens

Element arrayOfSpaceTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString.

Nullable pointer.

8.195.2.2 SRMv2__TReturnStatus * SRMv2__srmGetSpaceTokensResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.196 SRMv2__srmGetSpaceTokensResponse_ Struct Reference

Operation response struct "SRMv2__srmGetSpaceTokensResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetSpaceTokens".

`#include <srm2_2_soap.h>`

8.196.1 Detailed Description

Operation response struct "SRMv2__srmGetSpaceTokensResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetSpaceTokens".

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

- srm2_2_soap.h

- srm2_2_soapStub.h

8.197 SRMv2__srmGetTransferProtocols Struct Reference

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

- srm2_2_soapStub.h

8.198 SRMv2__srmGetTransferProtocolsRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetTransferProtocolsRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- struct **soap** * **soap**

8.198.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetTransferProtocolsRequest is a complexType.

8.198.2 Field Documentation

8.198.2.1 char * SRMv2__srmGetTransferProtocolsRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.199 SRMv2__srmGetTransferProtocolsResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmGetTransferProtocolsResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus** * **returnStatus**
- **SRMv2__ArrayOfTSupportedTransferProtocol** * **protocolInfo**
- struct **soap** * **soap**

8.199.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmGetTransferProtocolsResponse is a complexType.

8.199.2 Field Documentation

8.199.2.1 SRMv2__ArrayOfTSupportedTransferProtocol * SRMv2__srmGetTransferProtocolsResponse::protocolInfo

Element protocolInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSupportedTransferProtocol.

Nullable pointer.

8.199.2.2 SRMv2__TReturnStatus * SRMv2__srmGetTransferProtocolsResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.200 SRMv2__srmGetTransferProtocolsResponse_ Struct Reference

Operation response struct "SRMv2__srmGetTransferProtocolsResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetTransferProtocols".

`#include <srm2_2_soap.h>`

8.200.1 Detailed Description

Operation response struct "SRMv2__srmGetTransferProtocolsResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetTransferProtocols".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.201 SRMv2__srmLs Struct Reference

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

- srm2_2_soapStub.h

8.202 SRMv2__srmLsRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmLsRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- enum SRMv2__TFileStorageType * **fileStorageType**
- bool * **fullDetailedList**
- bool * **allLevelRecursive**
- int * **numOfLevels**
- int * **offset**
- int * **count**
- struct **soap** * **soap**

8.202.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmLsRequest is a complexType.

8.202.2 Field Documentation

8.202.2.1 bool * SRMv2__srmLsRequest::allLevelRecursive

Element allLevelRecursive of type xs:boolean.

Nullable pointer.

8.202.2.2 SRMv2__ArrayOfAnyURI * SRMv2__srmLsRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.202.2.3 char * SRMv2__srmLsRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.202.2.4 int * SRMv2__srmLsRequest::count

Element count of type xs:int.

Nullable pointer.

8.202.2.5 enum SRMv2__TFileStorageType * SRMv2__srmLsRequest::fileStorageType

Element fileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType.

Nullable pointer.

8.202.2.6 bool * SRMv2__srmLsRequest::fullDetailedList

Element fullDetailedList of type xs:boolean.

Nullable pointer.

8.202.2.7 int * SRMv2__srmLsRequest::numOfLevels

Element numOfLevels of type xs:int.

Nullable pointer.

8.202.2.8 int * SRMv2__srmLsRequest::offset

Element offset of type xs:int.

Nullable pointer.

8.202.2.9 SRMv2__ArrayOfTExtraInfo * SRMv2__srmLsRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.203 SRMv2__srmLsResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmLsResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- **SRMv2__ArrayOfTMetaDataPathDetail * details**
- struct **soap** * **soap**

8.203.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmLsResponse is a complexType.

8.203.2 Field Documentation

8.203.2.1 SRMv2__ArrayOfTMetaDataPathDetail * SRMv2__srmLsResponse::details

Element details of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail.

Nullable pointer.

8.203.2.2 char * SRMv2__srmLsResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.203.2.3 SRMv2__TReturnStatus * SRMv2__srmLsResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.204 SRMv2__srmLsResponse_ Struct Reference

Operation response struct "SRMv2__srmLsResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmLs".

`#include <srm2_2_soap.h>`

8.204.1 Detailed Description

Operation response struct "SRMv2__srmLsResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmLs".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.205 SRMv2__srmMkdir Struct Reference

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

- srm2_2_soapStub.h

8.206 SRMv2__srmMkdirRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmMkdirRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- xsd__anyURI **SURL**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.206.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmMkdirRequest is a complexType.

8.206.2 Field Documentation

8.206.2.1 char * SRMv2__srmMkdirRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.206.2.2 SRMv2__ArrayOfTExtraInfo * SRMv2__srmMkdirRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.206.2.3 xsd__anyURI SRMv2__srmMkdirRequest::SURL

Element SURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.207 SRMv2__srmMkdirResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmMkdirResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus ∗ returnStatus**
- struct **soap ∗ soap**

8.207.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmMkdirResponse is a complexType.

8.207.2 Field Documentation

8.207.2.1 SRMv2__TReturnStatus ∗ SRMv2__srmMkdirResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.208 SRMv2__srmMkdirResponse_ Struct Reference

Operation response struct "SRMv2__srmMkdirResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmMkdir".

`#include <srm2_2_soap.h>`

8.208.1 Detailed Description

Operation response struct "SRMv2__srmMkdirResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmMkdir".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.209 SRMv2__srmMv Struct Reference

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

- srm2_2_soapStub.h

8.210 SRMv2__srmMvRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmMvRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- xsd__anyURI **fromSURL**
- xsd__anyURI **toSURL**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.210.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmMvRequest is a complexType.

8.210.2 Field Documentation

8.210.2.1 char * SRMv2__srmMvRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.210.2.2 xsd__anyURI SRMv2__srmMvRequest::fromSURL

Element fromSURL of type xs:anyURI.

Required element.

8.210.2.3 SRMv2__ArrayOfTExtraInfo * SRMv2__srmMvRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.210.2.4 xsd__anyURI SRMv2__srmMvRequest::toSURL

Element toSURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.211 SRMv2__srmMvResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmMvResponse is a complexType.

```
#include <srm2_2_soap.h>
```

Data Fields

- **SRMv2__TReturnStatus ∗ returnStatus**
- struct **soap ∗ soap**

8.211.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmMvResponse is a complexType.

8.211.2 Field Documentation

8.211.2.1 SRMv2__TReturnStatus ∗ SRMv2__srmMvResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.212 SRMv2__srmMvResponse_ Struct Reference

Operation response struct "SRMv2__srmMvResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmMv".

`#include <srm2_2_soap.h>`

8.212.1 Detailed Description

Operation response struct "SRMv2__srmMvResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmMv".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.213 SRMv2__srmPing Struct Reference

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

- srm2_2_soapStub.h

8.214 SRMv2__srmPingRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPingRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- struct **soap** * **soap**

8.214.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPingRequest is a complexType.

8.214.2 Field Documentation

8.214.2.1 char * SRMv2__srmPingRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.215 SRMv2__srmPingResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPingResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **versionInfo**
- **SRMv2__ArrayOfTExtraInfo** * **otherInfo**
- struct **soap** * **soap**

8.215.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPingResponse is a complexType.

8.215.2 Field Documentation

8.215.2.1 SRMv2__ArrayOfTExtraInfo * SRMv2__srmPingResponse::otherInfo

Element otherInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.215.2.2 char * SRMv2__srmPingResponse::versionInfo

Element versionInfo of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.216 SRMv2__srmPingResponse_ Struct Reference

Operation response struct "SRMv2__srmPingResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPing".

`#include <srm2_2_soap.h>`

8.216.1 Detailed Description

Operation response struct "SRMv2__srmPingResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPing".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.217 SRMv2__srmPrepareToGet Struct Reference

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

- srm2_2_soapStub.h

8.218 SRMv2__srmPrepareToGetRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToGetRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfTGetFileRequest** * **arrayOfFileRequests**
- char * **userRequestDescription**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- enum SRMv2__TFileStorageType * **desiredFileStorageType**
- int * **desiredTotalRequestTime**
- int * **desiredPinLifeTime**

- char * **targetSpaceToken**
- **SRMv2__TRetentionPolicyInfo * targetFileRetentionPolicyInfo**
- **SRMv2__TTransferParameters * transferParameters**
- struct **soap * soap**

8.218.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToGetRequest is a complexType.

8.218.2 Field Documentation

8.218.2.1 SRMv2__ArrayOfTGetFileRequest * SRMv2__srmPrepareToGetRequest::arrayOfFileRequests

Element arrayOfFileRequests of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetFileRequest.

Required element.

8.218.2.2 char * SRMv2__srmPrepareToGetRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.218.2.3 enum SRMv2__TFileStorageType * SRMv2__srmPrepareToGetRequest::desiredFileStorageType

Element desiredFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType.

Nullable pointer.

8.218.2.4 int * SRMv2__srmPrepareToGetRequest::desiredPinLifeTime

Element desiredPinLifeTime of type xs:int.

Nullable pointer.

8.218.2.5 int * SRMv2__srmPrepareToGetRequest::desiredTotalRequestTime

Element desiredTotalRequestTime of type xs:int.

Nullable pointer.

8.218.2.6 SRMv2__ArrayOfTExtraInfo * SRMv2__srmPrepareToGetRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.218.2.7 SRMv2__TRetentionPolicyInfo * SRMv2__srmPrepareToGetRequest::targetFileRetentionPolicyInfo

Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.218.2.8 char * SRMv2__srmPrepareToGetRequest::targetSpaceToken

Element targetSpaceToken of type xs:string.

Nullable pointer.

8.218.2.9 SRMv2__TTransferParameters * SRMv2__srmPrepareToGetRequest::transferParameters

Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters.

Nullable pointer.

8.218.2.10 char * SRMv2__srmPrepareToGetRequest::userRequestDescription

Element userRequestDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.219 SRMv2__srmPrepareToGetResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToGetResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- **SRMv2__ArrayOfTGetRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- struct **soap** * **soap**

8.219.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToGetResponse is a complexType.

8.219.2 Field Documentation

8.219.2.1 SRMv2__ArrayOfTGetRequestFileStatus * SRMv2__srmPrepareToGetResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus.

Nullable pointer.

8.219.2.2 int * SRMv2__srmPrepareToGetResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.219.2.3 char * SRMv2__srmPrepareToGetResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.219.2.4 SRMv2__TReturnStatus * SRMv2__srmPrepareToGetResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.220 SRMv2__srmPrepareToGetResponse_ Struct Reference

Operation response struct "SRMv2__srmPrepareToGetResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPrepareToGet".

`#include <srm2_2_soap.h>`

8.220.1 Detailed Description

Operation response struct "SRMv2__srmPrepareToGetResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPrepareToGet".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.221 SRMv2__srmPrepareToPut Struct Reference

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

- srm2_2_soapStub.h

8.222 SRMv2__srmPrepareToPutRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToPutRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfTPutFileRequest** * **arrayOfFileRequests**
- char * **userRequestDescription**
- enum SRMv2__TOverwriteMode * **overwriteOption**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- int * **desiredTotalRequestTime**
- int * **desiredPinLifeTime**
- int * **desiredFileLifeTime**
- enum SRMv2__TFileStorageType * **desiredFileStorageType**
- char * **targetSpaceToken**
- **SRMv2__TRetentionPolicyInfo** * **targetFileRetentionPolicyInfo**
- **SRMv2__TTransferParameters** * **transferParameters**
- struct **soap** * **soap**

8.222.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToPutRequest is a complexType.

8.222.2 Field Documentation

8.222.2.1 SRMv2__ArrayOfTPutFileRequest * SRMv2__srmPrepareToPutRequest::arrayOfFileRequests

Element arrayOfFileRequests of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutFileRequest.

Nullable pointer.

8.222.2.2 char * SRMv2__srmPrepareToPutRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.222.2.3 int * SRMv2__srmPrepareToPutRequest::desiredFileLifeTime

Element desiredFileLifeTime of type xs:int.

Nullable pointer.

8.222.2.4 enum SRMv2__TFileStorageType * SRMv2__srmPrepareToPutRequest::desiredFileStorageType

Element desiredFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType.

Nullable pointer.

8.222.2.5 int * SRMv2__srmPrepareToPutRequest::desiredPinLifeTime

Element desiredPinLifeTime of type xs:int.

Nullable pointer.

8.222.2.6 int * SRMv2__srmPrepareToPutRequest::desiredTotalRequestTime

Element desiredTotalRequestTime of type xs:int.

Nullable pointer.

8.222.2.7 enum SRMv2__TOverwriteMode * SRMv2__srmPrepareToPutRequest::overwriteOption

Element overwriteOption of type "http://srm.lbl.gov/StorageResourceManager":TOverwriteMode.

Nullable pointer.

8.222.2.8 SRMv2__ArrayOfTExtraInfo * SRMv2__srmPrepareToPutRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.222.2.9 SRMv2__TRetentionPolicyInfo * SRMv2__srmPrepareToPutRequest::targetFileRetentionPolicyInfo

Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.222.2.10 char * SRMv2__srmPrepareToPutRequest::targetSpaceToken

Element targetSpaceToken of type xs:string.

Nullable pointer.

8.222.2.11 SRMv2__TTransferParameters * SRMv2__srmPrepareToPutRequest::transferParameters

Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters.

Nullable pointer.

8.222.2.12 char * SRMv2__srmPrepareToPutRequest::userRequestDescription

Element userRequestDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.223 SRMv2__srmPrepareToPutResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToPutResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- **SRMv2__ArrayOfTPutRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- struct **soap** * **soap**

8.223.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPrepareToPutResponse is a complexType.

8.223.2 Field Documentation

8.223.2.1 SRMv2__ArrayOfTPutRequestFileStatus * SRMv2__srmPrepareToPutResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus.

Nullable pointer.

8.223.2.2 int * SRMv2__srmPrepareToPutResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.223.2.3 char * SRMv2__srmPrepareToPutResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.223.2.4 SRMv2__TReturnStatus * SRMv2__srmPrepareToPutResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.224 SRMv2__srmPrepareToPutResponse_ Struct Reference

Operation response struct "SRMv2__srmPrepareToPutResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPrepareToPut".

`#include <srm2_2_soap.h>`

8.224.1 Detailed Description

Operation response struct "SRMv2__srmPrepareToPutResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPrepareToPut".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.225 SRMv2__srmPurgeFromSpace Struct Reference

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

- srm2_2_soapStub.h

8.226 SRMv2__srmPurgeFromSpaceRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPurgeFromSpaceRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**

- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- char * **spaceToken**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.226.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPurgeFromSpaceRequest is a complexType.

8.226.2 Field Documentation

8.226.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmPurgeFromSpaceRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.226.2.2 char * SRMv2__srmPurgeFromSpaceRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.226.2.3 char * SRMv2__srmPurgeFromSpaceRequest::spaceToken

Element spaceToken of type xs:string.

Required element.

8.226.2.4 SRMv2__ArrayOfTExtraInfo * SRMv2__srmPurgeFromSpaceRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.227 SRMv2__srmPurgeFromSpaceResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPurgeFromSpaceResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus** * **returnStatus**

- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.227.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPurgeFromSpaceResponse is a complexType.

8.227.2 Field Documentation

8.227.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmPurgeFromSpaceResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.227.2.2 SRMv2__TReturnStatus * SRMv2__srmPurgeFromSpaceResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.228 SRMv2__srmPurgeFromSpaceResponse_ Struct Reference

Operation response struct "SRMv2__srmPurgeFromSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPurgeFromSpace".

`#include <srm2_2_soap.h>`

8.228.1 Detailed Description

Operation response struct "SRMv2__srmPurgeFromSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPurgeFromSpace".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.229 SRMv2__srmPutDone Struct Reference

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

- srm2_2_soapStub.h

8.230 SRMv2__srmPutDoneRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPutDoneRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- struct **soap** * **soap**

8.230.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPutDoneRequest is a complexType.

8.230.2 Field Documentation

8.230.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmPutDoneRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.230.2.2 char * SRMv2__srmPutDoneRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.230.2.3 char * SRMv2__srmPutDoneRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.231 SRMv2__srmPutDoneResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmPutDoneResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.231.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmPutDoneResponse is a complexType.

8.231.2 Field Documentation

8.231.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmPutDoneResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.231.2.2 SRMv2__TReturnStatus * SRMv2__srmPutDoneResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.232 SRMv2__srmPutDoneResponse_ Struct Reference

Operation response struct "SRMv2__srmPutDoneResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPutDone".

`#include <srm2_2_soap.h>`

8.232.1 Detailed Description

Operation response struct "SRMv2__srmPutDoneResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPutDone".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.233 SRMv2__srmReleaseFiles Struct Reference

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

- srm2_2_soapStub.h

8.234 SRMv2__srmReleaseFilesRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmReleaseFilesRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSURLs**
- bool * **doRemove**
- struct **soap** * **soap**

8.234.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmReleaseFilesRequest is a complexType.

8.234.2 Field Documentation

8.234.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmReleaseFilesRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.234.2.2 char * SRMv2__srmReleaseFilesRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.234.2.3 bool * SRMv2__srmReleaseFilesRequest::doRemove

Element doRemove of type xs:boolean.

Nullable pointer.

8.234.2.4 char * SRMv2__srmReleaseFilesRequest::requestToken

Element requestToken of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.235 SRMv2__srmReleaseFilesResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmReleaseFilesResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.235.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmReleaseFilesResponse is a complexType.

8.235.2 Field Documentation

8.235.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmReleaseFilesResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.235.2.2 SRMv2__TReturnStatus * SRMv2__srmReleaseFilesResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.236 SRMv2__srmReleaseFilesResponse_ Struct Reference

Operation response struct "SRMv2__srmReleaseFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReleaseFiles".

`#include <srm2_2_soap.h>`

8.236.1 Detailed Description

Operation response struct "SRMv2__srmReleaseFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReleaseFiles".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.237 SRMv2__srmReleaseSpace Struct Reference

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

- srm2_2_soapStub.h

8.238 SRMv2__srmReleaseSpaceRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmReleaseSpaceRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **spaceToken**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- bool * **forceFileRelease**
- struct **soap** * **soap**

8.238.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmReleaseSpaceRequest is a complexType.

8.238.2 Field Documentation

8.238.2.1 char * SRMv2__srmReleaseSpaceRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.238.2.2 bool * SRMv2__srmReleaseSpaceRequest::forceFileRelease

Element forceFileRelease of type xs:boolean.

Nullable pointer.

8.238.2.3 char * SRMv2__srmReleaseSpaceRequest::spaceToken

Element spaceToken of type xs:string.

Required element.

8.238.2.4 SRMv2__ArrayOfTExtraInfo * SRMv2__srmReleaseSpaceRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.239 SRMv2__srmReleaseSpaceResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmReleaseSpaceResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- struct **soap * soap**

8.239.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmReleaseSpaceResponse is a complexType.

8.239.2 Field Documentation

8.239.2.1 SRMv2__TReturnStatus * SRMv2__srmReleaseSpaceResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.240 SRMv2__srmReleaseSpaceResponse_ Struct Reference

Operation response struct "SRMv2__srmReleaseSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReleaseSpace".

`#include <srm2_2_soap.h>`

8.240.1 Detailed Description

Operation response struct "SRMv2__srmReleaseSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReleaseSpace".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.241 SRMv2__srmReserveSpace Struct Reference

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

- srm2_2_soapStub.h

8.242 SRMv2__srmReserveSpaceRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmReserveSpaceRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **userSpaceTokenDescription**
- **SRMv2__TRetentionPolicyInfo** * **retentionPolicyInfo**
- ULONG64 * **desiredSizeOfTotalSpace**
- ULONG64 **desiredSizeOfGuaranteedSpace**
- int * **desiredLifetimeOfReservedSpace**
- **SRMv2__ArrayOfUnsignedLong** * **arrayOfExpectedFileSizes**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- **SRMv2__TTransferParameters** * **transferParameters**
- struct **soap** * **soap**

8.242.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmReserveSpaceRequest is a complexType.

8.242.2 Field Documentation

8.242.2.1 SRMv2__ArrayOfUnsignedLong * SRMv2__srmReserveSpaceRequest::arrayOfExpectedFileSizes

Element arrayOfExpectedFileSizes of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfUnsignedLong.

Nullable pointer.

8.242.2.2 char * SRMv2__srmReserveSpaceRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.242.2.3 int * SRMv2__srmReserveSpaceRequest::desiredLifetimeOfReservedSpace

Element desiredLifetimeOfReservedSpace of type xs:int.

Nullable pointer.

8.242.2.4 ULONG64 SRMv2__srmReserveSpaceRequest::desiredSizeOfGuaranteedSpace

Element desiredSizeOfGuaranteedSpace of type xs:unsignedLong.

Required element.

8.242.2.5 ULONG64 * SRMv2__srmReserveSpaceRequest::desiredSizeOfTotalSpace

Element desiredSizeOfTotalSpace of type xs:unsignedLong.

Nullable pointer.

8.242.2.6 SRMv2__TRetentionPolicyInfo * SRMv2__srmReserveSpaceRequest::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Required element.

8.242.2.7 SRMv2__ArrayOfTExtraInfo * SRMv2__srmReserveSpaceRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.242.2.8 SRMv2__TTransferParameters * SRMv2__srmReserveSpaceRequest::transferParameters

Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters.

Nullable pointer.

8.242.2.9 char * SRMv2__srmReserveSpaceRequest::userSpaceTokenDescription

Element userSpaceTokenDescription of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.243 SRMv2__srmReserveSpaceResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmReserveSpaceResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus** * **returnStatus**
- char * **requestToken**
- int * **estimatedProcessingTime**
- **SRMv2__TRetentionPolicyInfo** * **retentionPolicyInfo**
- ULONG64 * **sizeOfTotalReservedSpace**
- ULONG64 * **sizeOfGuaranteedReservedSpace**
- int * **lifetimeOfReservedSpace**
- char * **spaceToken**
- struct **soap** * **soap**

8.243.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmReserveSpaceResponse is a complexType.

8.243.2 Field Documentation

8.243.2.1 int * SRMv2__srmReserveSpaceResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int.

Nullable pointer.

8.243.2.2 int * SRMv2__srmReserveSpaceResponse::lifetimeOfReservedSpace

Element lifetimeOfReservedSpace of type xs:int.

Nullable pointer.

8.243.2.3 char * SRMv2__srmReserveSpaceResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.243.2.4 SRMv2__TRetentionPolicyInfo * SRMv2__srmReserveSpaceResponse::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.243.2.5 SRMv2__TReturnStatus * SRMv2__srmReserveSpaceResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.243.2.6 ULONG64 * SRMv2__srmReserveSpaceResponse::sizeOfGuaranteedReservedSpace

Element sizeOfGuaranteedReservedSpace of type xs:unsignedLong.

Nullable pointer.

8.243.2.7 ULONG64 * SRMv2__srmReserveSpaceResponse::sizeOfTotalReservedSpace

Element sizeOfTotalReservedSpace of type xs:unsignedLong.

Nullable pointer.

8.243.2.8 char * SRMv2__srmReserveSpaceResponse::spaceToken

Element spaceToken of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.244 SRMv2__srmReserveSpaceResponse_ Struct Reference

Operation response struct "SRMv2__srmReserveSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReserveSpace".

`#include <srm2_2_soap.h>`

8.244.1 Detailed Description

Operation response struct "SRMv2__srmReserveSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReserveSpace".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.245 SRMv2__srmResumeRequest Struct Reference

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

- srm2_2_soapStub.h

8.246 SRMv2__srmResumeRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmResumeRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- struct **soap** * **soap**

8.246.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmResumeRequestRequest is a complexType.

8.246.2 Field Documentation

8.246.2.1 char * SRMv2__srmResumeRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.246.2.2 char * SRMv2__srmResumeRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.247 SRMv2__srmResumeRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmResumeRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus** * **returnStatus**
- struct **soap** * **soap**

8.247.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmResumeRequestResponse is a complexType.

8.247.2 Field Documentation

8.247.2.1 SRMv2__TReturnStatus * SRMv2__srmResumeRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.248 SRMv2__srmResumeRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmResumeRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmResumeRequest".

`#include <srm2_2_soap.h>`

8.248.1 Detailed Description

Operation response struct "SRMv2__srmResumeRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmResumeRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.249 SRMv2__srmRm Struct Reference

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

- srm2_2_soapStub.h

8.250 SRMv2__srmRmdir Struct Reference

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

- srm2_2_soapStub.h

8.251 SRMv2__srmRmdirRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmRmdirRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char ∗ **authorizationID**
- xsd__anyURI **SURL**
- **SRMv2__ArrayOfTExtraInfo ∗ storageSystemInfo**
- bool ∗ **recursive**
- struct **soap** ∗ **soap**

8.251.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmRmdirRequest is a complexType.

8.251.2 Field Documentation

8.251.2.1 char ∗ SRMv2__srmRmdirRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.251.2.2 bool ∗ SRMv2__srmRmdirRequest::recursive

Element recursive of type xs:boolean.

Nullable pointer.

8.251.2.3 SRMv2__ArrayOfTExtraInfo ∗ SRMv2__srmRmdirRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.251.2.4 xsd__anyURI SRMv2__srmRmdirRequest::SURL

Element SURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.252 SRMv2__srmRmdirResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmRmdirResponse is a complexType.

```
#include <srm2_2_soap.h>
```

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- struct **soap * soap**

8.252.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmRmdirResponse is a complexType.

8.252.2 Field Documentation

8.252.2.1 SRMv2__TReturnStatus * SRMv2__srmRmdirResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.253 SRMv2__srmRmdirResponse_ Struct Reference

Operation response struct "SRMv2__srmRmdirResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmRmdir".

`#include <srm2_2_soap.h>`

8.253.1 Detailed Description

Operation response struct "SRMv2__srmRmdirResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmRmdir".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.254 SRMv2__srmRmRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmRmRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI * arrayOfSURLs**

- **SRMv2__ArrayOfTExtraInfo * storageSystemInfo**
- struct **soap * soap**

8.254.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmRmRequest is a complexType.

8.254.2 Field Documentation

8.254.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmRmRequest::arrayOfSURLs

Element arrayOfSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Required element.

8.254.2.2 char * SRMv2__srmRmRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.254.2.3 SRMv2__ArrayOfTExtraInfo * SRMv2__srmRmRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.255 SRMv2__srmRmResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmRmResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.255.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmRmResponse is a complexType.

8.255.2 Field Documentation

8.255.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmRmResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.255.2.2 SRMv2__TReturnStatus * SRMv2__srmRmResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.256 SRMv2__srmRmResponse_ Struct Reference

Operation response struct "SRMv2__srmRmResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmRm".

`#include <srm2_2_soap.h>`

8.256.1 Detailed Description

Operation response struct "SRMv2__srmRmResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmRm".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.257 SRMv2__srmSetPermission Struct Reference

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

- srm2_2_soapStub.h

8.258 SRMv2__srmSetPermissionRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmSetPermissionRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- xsd__anyURI **SURL**
- enum SRMv2__TPermissionType **permissionType**
- enum SRMv2__TPermissionMode * **ownerPermission**
- **SRMv2__ArrayOfTUserPermission** * **arrayOfUserPermissions**
- **SRMv2__ArrayOfTGroupPermission** * **arrayOfGroupPermissions**
- enum SRMv2__TPermissionMode * **otherPermission**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.258.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmSetPermissionRequest is a complexType.

8.258.2 Field Documentation

8.258.2.1 SRMv2__ArrayOfTGroupPermission * SRMv2__srmSetPermissionRequest::arrayOfGroupPermissions

Element arrayOfGroupPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission.

Nullable pointer.

8.258.2.2 SRMv2__ArrayOfTUserPermission * SRMv2__srmSetPermissionRequest::arrayOfUserPermissions

Element arrayOfUserPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission.

Nullable pointer.

8.258.2.3 char * SRMv2__srmSetPermissionRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.258.2.4 enum SRMv2__TPermissionMode * SRMv2__srmSetPermissionRequest::otherPermission

Element otherPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.

Nullable pointer.

8.258.2.5 enum SRMv2__TPermissionMode * SRMv2__srmSetPermissionRequest::ownerPermission

Element ownerPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.

Nullable pointer.

8.258.2.6 enum SRMv2__TPermissionType SRMv2__srmSetPermissionRequest::permissionType

Element permissionType of type "http://srm.lbl.gov/StorageResourceManager":TPermissionType.

Required element.

8.258.2.7 SRMv2__ArrayOfTExtraInfo * SRMv2__srmSetPermissionRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.258.2.8 xsd__anyURI SRMv2__srmSetPermissionRequest::SURL

Element SURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.259 SRMv2__srmSetPermissionResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmSetPermissionResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- struct **soap * soap**

8.259.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmSetPermissionResponse is a complexType.

8.259.2 Field Documentation

8.259.2.1 SRMv2__TReturnStatus * SRMv2__srmSetPermissionResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.260 SRMv2__srmSetPermissionResponse_ Struct Reference

Operation response struct "SRMv2__srmSetPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmSetPermission".

`#include <srm2_2_soap.h>`

8.260.1 Detailed Description

Operation response struct "SRMv2__srmSetPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmSetPermission".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.261 SRMv2__srmStatusOfBringOnlineRequest Struct Reference

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

- srm2_2_soapStub.h

8.262 SRMv2__srmStatusOfBringOnlineRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSourceSURLs**
- struct **soap** * **soap**

8.262.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestRequest is a complexType.

8.262.2 Field Documentation

8.262.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmStatusOfBringOnlineRequestRequest::arrayOfSourceSURLs

Element arrayOfSourceSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.262.2.2 char * SRMv2__srmStatusOfBringOnlineRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.262.2.3 char * SRMv2__srmStatusOfBringOnlineRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.263 SRMv2__srmStatusOfBringOnlineRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTBringOnlineRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- int * **remainingDeferredStartTime**
- struct **soap** * **soap**

8.263.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestResponse is a complexType.

8.263.2 Field Documentation

8.263.2.1 SRMv2__ArrayOfTBringOnlineRequestFileStatus * SRMv2__srmStatusOfBringOnlineRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTBringOnlineRequestFileStatus.

Nullable pointer.

8.263.2.2 int * SRMv2__srmStatusOfBringOnlineRequestResponse::remainingDeferredStartTime

Element remainingDeferredStartTime of type xs:int.

Nullable pointer.

8.263.2.3 int * SRMv2__srmStatusOfBringOnlineRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.263.2.4 SRMv2__TReturnStatus * SRMv2__srmStatusOfBringOnlineRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.264 SRMv2__srmStatusOfBringOnlineRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfBringOnlineRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfBringOnlineRequest".

`#include <srm2_2_soap.h>`

8.264.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfBringOnlineRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfBringOnlineRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.265 SRMv2__srmStatusOfChangeSpaceForFilesRequest Struct Reference

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

- srm2_2_soapStub.h

8.266 SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfChangeSpaceForFilesRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **requestToken**
- struct **soap** * **soap**

8.266.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfChangeSpaceForFilesRequestRequest is a complexType.

8.266.2 Field Documentation

8.266.2.1 char * SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.266.2.2 char * SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.267 SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfChangeSpaceForFilesRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus** * **returnStatus**

- int * **estimatedProcessingTime**
- **SRMv2__ArrayOfTSURLReturnStatus * arrayOfFileStatuses**
- struct **soap * soap**

8.267.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfChangeSpaceForFilesRequestResponse is a complexType.

8.267.2 Field Documentation

8.267.2.1 SRMv2__ArrayOfTSURLReturnStatus * SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSURLReturnStatus.

Nullable pointer.

8.267.2.2 int * SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int.

Nullable pointer.

8.267.2.3 SRMv2__TReturnStatus * SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.268 SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfChangeSpaceForFilesRequest".

`#include <srm2_2_soap.h>`

8.268.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfChangeSpaceForFilesRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.269 SRMv2__srmStatusOfCopyRequest Struct Reference

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

- srm2_2_soapStub.h

8.270 SRMv2__srmStatusOfCopyRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfCopyRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSourceSURLs**
- **SRMv2__ArrayOfAnyURI** * **arrayOfTargetSURLs**
- struct **soap** * **soap**

8.270.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfCopyRequestRequest is a complexType.

8.270.2 Field Documentation

8.270.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmStatusOfCopyRequestRequest::arrayOfSourceSURLs

Element arrayOfSourceSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.270.2.2 SRMv2__ArrayOfAnyURI * SRMv2__srmStatusOfCopyRequestRequest::arrayOfTargetSURLs

Element arrayOfTargetSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.270.2.3 char * SRMv2__srmStatusOfCopyRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.270.2.4 char * SRMv2__srmStatusOfCopyRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.271 SRMv2__srmStatusOfCopyRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfCopyRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTCopyRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- struct **soap** * **soap**

8.271.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfCopyRequestResponse is a complexType.

8.271.2 Field Documentation

8.271.2.1 SRMv2__ArrayOfTCopyRequestFileStatus * SRMv2__srmStatusOfCopyRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyRequestFileStatus.

Nullable pointer.

8.271.2.2 int * SRMv2__srmStatusOfCopyRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.271.2.3 SRMv2__TReturnStatus * SRMv2__srmStatusOfCopyRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.272 SRMv2__srmStatusOfCopyRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfCopyRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfCopyRequest".

`#include <srm2_2_soap.h>`

8.272.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfCopyRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfCopyRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.273 SRMv2__srmStatusOfGetRequest Struct Reference

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

- srm2_2_soapStub.h

8.274 SRMv2__srmStatusOfGetRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfGetRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfSourceSURLs**
- struct **soap** * **soap**

8.274.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfGetRequestRequest is a complexType.

8.274.2 Field Documentation

8.274.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmStatusOfGetRequestRequest::arrayOfSourceSURLs

Element arrayOfSourceSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.274.2.2 char * SRMv2__srmStatusOfGetRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.274.2.3 char * SRMv2__srmStatusOfGetRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.275 SRMv2__srmStatusOfGetRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfGetRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTGetRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- struct **soap** * **soap**

8.275.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfGetRequestResponse is a complexType.

8.275.2 Field Documentation

8.275.2.1 SRMv2__ArrayOfTGetRequestFileStatus * SRMv2__srmStatusOfGetRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus.

Nullable pointer.

8.275.2.2 int * SRMv2__srmStatusOfGetRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.275.2.3 SRMv2__TReturnStatus * SRMv2__srmStatusOfGetRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.276 SRMv2__srmStatusOfGetRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfGetRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfGetRequest".

`#include <srm2_2_soap.h>`

8.276.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfGetRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfGetRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.277 SRMv2__srmStatusOfLsRequest Struct Reference

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

- srm2_2_soapStub.h

8.278 SRMv2__srmStatusOfLsRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfLsRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **requestToken**
- int * **offset**
- int * **count**
- struct **soap** * **soap**

8.278.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfLsRequestRequest is a complexType.

8.278.2 Field Documentation

8.278.2.1 char * SRMv2__srmStatusOfLsRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.278.2.2 int * SRMv2__srmStatusOfLsRequestRequest::count

Element count of type xs:int.

Nullable pointer.

8.278.2.3 int * SRMv2__srmStatusOfLsRequestRequest::offset

Element offset of type xs:int.

Optional element.

8.278.2.4 char * SRMv2__srmStatusOfLsRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.279 SRMv2__srmStatusOfLsRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfLsRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTMetaDataPathDetail * details**
- struct **soap * soap**

8.279.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfLsRequestResponse is a complexType.

8.279.2 Field Documentation

8.279.2.1 SRMv2__ArrayOfTMetaDataPathDetail * SRMv2__srmStatusOfLsRequestResponse::details

Element details of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail.

Nullable pointer.

8.279.2.2 SRMv2__TReturnStatus * SRMv2__srmStatusOfLsRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.280 SRMv2__srmStatusOfLsRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfLsRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfLsRequest".

`#include <srm2_2_soap.h>`

8.280.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfLsRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfLsRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.281 SRMv2__srmStatusOfPutRequest Struct Reference

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

- srm2_2_soapStub.h

8.282 SRMv2__srmStatusOfPutRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfPutRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- **SRMv2__ArrayOfAnyURI** * **arrayOfTargetSURLs**
- struct **soap** * **soap**

8.282.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfPutRequestRequest is a complexType.

8.282.2 Field Documentation

8.282.2.1 SRMv2__ArrayOfAnyURI * SRMv2__srmStatusOfPutRequestRequest::arrayOfTargetSURLs

Element arrayOfTargetSURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI.

Nullable pointer.

8.282.2.2 char * SRMv2__srmStatusOfPutRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.282.2.3 char * SRMv2__srmStatusOfPutRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.283 SRMv2__srmStatusOfPutRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfPutRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- **SRMv2__ArrayOfTPutRequestFileStatus * arrayOfFileStatuses**
- int * **remainingTotalRequestTime**
- struct **soap** * **soap**

8.283.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfPutRequestResponse is a complexType.

8.283.2 Field Documentation

8.283.2.1 SRMv2__ArrayOfTPutRequestFileStatus * SRMv2__srmStatusOfPutRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus.

Nullable pointer.

8.283.2.2 int * SRMv2__srmStatusOfPutRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int.

Nullable pointer.

8.283.2.3 SRMv2__TReturnStatus * SRMv2__srmStatusOfPutRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.284 SRMv2__srmStatusOfPutRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfPutRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfPutRequest".

`#include <srm2_2_soap.h>`

8.284.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfPutRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfPutRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.285 SRMv2__srmStatusOfReserveSpaceRequest Struct Reference

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

- srm2_2_soapStub.h

8.286 SRMv2__srmStatusOfReserveSpaceRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **requestToken**
- struct **soap** * **soap**

8.286.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestRequest is a complexType.

8.286.2 Field Documentation

8.286.2.1 char * SRMv2__srmStatusOfReserveSpaceRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.286.2.2 char * SRMv2__srmStatusOfReserveSpaceRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.287 SRMv2__srmStatusOfReserveSpaceRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- int * **estimatedProcessingTime**
- **SRMv2__TRetentionPolicyInfo * retentionPolicyInfo**
- ULONG64 * **sizeOfTotalReservedSpace**
- ULONG64 * **sizeOfGuaranteedReservedSpace**
- int * **lifetimeOfReservedSpace**
- char * **spaceToken**
- struct **soap** * **soap**

8.287.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestResponse is a complexType.

8.287.2 Field Documentation

8.287.2.1 int * SRMv2__srmStatusOfReserveSpaceRequestResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int.

Nullable pointer.

8.287.2.2 int * SRMv2__srmStatusOfReserveSpaceRequestResponse::lifetimeOfReservedSpace

Element lifetimeOfReservedSpace of type xs:int.

Nullable pointer.

8.287.2.3 SRMv2__TRetentionPolicyInfo * SRMv2__srmStatusOfReserveSpaceRequestResponse::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.287.2.4 SRMv2__TReturnStatus * SRMv2__-srmStatusOfReserveSpaceRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.287.2.5 ULONG64 * SRMv2__-srmStatusOfReserveSpaceRequestResponse::sizeOfGuaranteedReservedSpace

Element sizeOfGuaranteedReservedSpace of type xs:unsignedLong.

Nullable pointer.

8.287.2.6 ULONG64 * SRMv2__-srmStatusOfReserveSpaceRequestResponse::sizeOfTotalReservedSpace

Element sizeOfTotalReservedSpace of type xs:unsignedLong.

Nullable pointer.

8.287.2.7 char * SRMv2__srmStatusOfReserveSpaceRequestResponse::spaceToken

Element spaceToken of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.288 SRMv2__srmStatusOfReserveSpaceRequestResponse_-Struct Reference

Operation response struct "SRMv2__srmStatusOfReserveSpaceRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfReserveSpaceRequest".

`#include <srm2_2_soap.h>`

8.288.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfReserveSpaceRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfReserveSpaceRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.289 SRMv2__srmStatusOfUpdateSpaceRequest Struct Reference

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

- srm2_2_soapStub.h

8.290 SRMv2__srmStatusOfUpdateSpaceRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **requestToken**
- struct **soap** * **soap**

8.290.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestRequest is a complexType.

8.290.2 Field Documentation

8.290.2.1 char * SRMv2__srmStatusOfUpdateSpaceRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.290.2.2 char * SRMv2__srmStatusOfUpdateSpaceRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.291 SRMv2__srmStatusOfUpdateSpaceRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- ULONG64 * **sizeOfTotalSpace**
- ULONG64 * **sizeOfGuaranteedSpace**
- int * **lifetimeGranted**
- struct **soap** * **soap**

8.291.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestResponse is a complexType.

8.291.2 Field Documentation

8.291.2.1 int * SRMv2__srmStatusOfUpdateSpaceRequestResponse::lifetimeGranted

Element lifetimeGranted of type xs:int.

Nullable pointer.

8.291.2.2 SRMv2__TReturnStatus * SRMv2__srmStatusOfUpdateSpaceRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.291.2.3 ULONG64 * SRMv2__srmStatusOfUpdateSpaceRequestResponse::sizeOfGuaranteedSpace

Element sizeOfGuaranteedSpace of type xs:unsignedLong.

Nullable pointer.

8.291.2.4 ULONG64 * SRMv2__srmStatusOfUpdateSpaceRequestResponse::sizeOfTotalSpace

Element sizeOfTotalSpace of type xs:unsignedLong.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.292 SRMv2__srmStatusOfUpdateSpaceRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmStatusOfUpdateSpaceRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfUpdateSpaceRequest".

`#include <srm2_2_soap.h>`

8.292.1 Detailed Description

Operation response struct "SRMv2__srmStatusOfUpdateSpaceRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfUpdateSpaceRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.293 SRMv2__srmSuspendRequest Struct Reference

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

- srm2_2_soapStub.h

8.294 SRMv2__srmSuspendRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmSuspendRequestRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- char * **authorizationID**
- struct **soap** * **soap**

8.294.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmSuspendRequestRequest is a complexType.

8.294.2 Field Documentation

8.294.2.1 char * SRMv2__srmSuspendRequestRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.294.2.2 char * SRMv2__srmSuspendRequestRequest::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.295 SRMv2__srmSuspendRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmSuspendRequestResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- struct **soap * soap**

8.295.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmSuspendRequestResponse is a complexType.

8.295.2 Field Documentation

8.295.2.1 SRMv2__TReturnStatus * SRMv2__srmSuspendRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.296 SRMv2__srmSuspendRequestResponse_ Struct Reference

Operation response struct "SRMv2__srmSuspendRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmSuspendRequest".

`#include <srm2_2_soap.h>`

8.296.1 Detailed Description

Operation response struct "SRMv2__srmSuspendRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmSuspendRequest".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.297 SRMv2__srmUpdateSpace Struct Reference

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

- srm2_2_soapStub.h

8.298 SRMv2__srmUpdateSpaceRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmUpdateSpaceRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **authorizationID**
- char * **spaceToken**
- ULONG64 * **newSizeOfTotalSpaceDesired**
- ULONG64 * **newSizeOfGuaranteedSpaceDesired**
- int * **newLifeTime**
- **SRMv2__ArrayOfTExtraInfo** * **storageSystemInfo**
- struct **soap** * **soap**

8.298.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmUpdateSpaceRequest is a complexType.

8.298.2 Field Documentation

8.298.2.1 char * SRMv2__srmUpdateSpaceRequest::authorizationID

Element authorizationID of type xs:string.

Nullable pointer.

8.298.2.2 int * SRMv2__srmUpdateSpaceRequest::newLifeTime

Element newLifeTime of type xs:int.

Nullable pointer.

8.298.2.3 ULONG64 * SRMv2__srmUpdateSpaceRequest::newSizeOfGuaranteedSpaceDesired

Element newSizeOfGuaranteedSpaceDesired of type xs:unsignedLong.

Nullable pointer.

8.298.2.4 ULONG64 * SRMv2__srmUpdateSpaceRequest::newSizeOfTotalSpaceDesired

Element newSizeOfTotalSpaceDesired of type xs:unsignedLong.

Nullable pointer.

8.298.2.5 char * SRMv2__srmUpdateSpaceRequest::spaceToken

Element spaceToken of type xs:string.

Required element.

8.298.2.6 SRMv2__ArrayOfTExtraInfo * SRMv2__srmUpdateSpaceRequest::storageSystemInfo

Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.299 SRMv2__srmUpdateSpaceResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmUpdateSpaceResponse is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- **SRMv2__TReturnStatus * returnStatus**
- char * **requestToken**
- ULONG64 * **sizeOfTotalSpace**
- ULONG64 * **sizeOfGuaranteedSpace**
- int * **lifetimeGranted**
- struct **soap** * **soap**

8.299.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmUpdateSpaceResponse is a complexType.

8.299.2 Field Documentation

8.299.2.1 int * SRMv2__srmUpdateSpaceResponse::lifetimeGranted

Element lifetimeGranted of type xs:int.

Nullable pointer.

8.299.2.2 char * SRMv2__srmUpdateSpaceResponse::requestToken

Element requestToken of type xs:string.

Nullable pointer.

8.299.2.3 SRMv2__TReturnStatus * SRMv2__srmUpdateSpaceResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.299.2.4 ULONG64 * SRMv2__srmUpdateSpaceResponse::sizeOfGuaranteedSpace

Element sizeOfGuaranteedSpace of type xs:unsignedLong.

Nullable pointer.

8.299.2.5 ULONG64 * SRMv2__srmUpdateSpaceResponse::sizeOfTotalSpace

Element sizeOfTotalSpace of type xs:unsignedLong.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.300 SRMv2__srmUpdateSpaceResponse_ Struct Reference

Operation response struct "SRMv2__srmUpdateSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmUpdateSpace".

`#include <srm2_2_soap.h>`

8.300.1 Detailed Description

Operation response struct "SRMv2__srmUpdateSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmUpdateSpace".

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.301 SRMv2__TBringOnlineRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TBringOnlineRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **sourceSURL**
- **SRMv2__TReturnStatus** * **status**
- ULONG64 * **fileSize**
- int * **estimatedWaitTime**
- int * **remainingPinTime**
- struct **soap** * **soap**

8.301.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TBringOnlineRequestFileStatus is a complexType.

8.301.2 Field Documentation

8.301.2.1 int * SRMv2__TBringOnlineRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int.

Nullable pointer.

8.301.2.2 ULONG64 * SRMv2__TBringOnlineRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong.

Nullable pointer.

8.301.2.3 int * SRMv2__TBringOnlineRequestFileStatus::remainingPinTime

Element remainingPinTime of type xs:int.

Nullable pointer.

8.301.2.4 xsd__anyURI SRMv2__TBringOnlineRequestFileStatus::sourceSURL

Element sourceSURL of type xs:anyURI.

Required element.

8.301.2.5 SRMv2__TReturnStatus * SRMv2__TBringOnlineRequestFileStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.302 SRMv2__TCopyFileRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":TCopyFileRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **sourceSURL**
- xsd__anyURI **targetSURL**
- **SRMv2__TDirOption** * **dirOption**
- struct **soap** * **soap**

8.302.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TCopyFileRequest is a complexType.

8.302.2 Field Documentation

8.302.2.1 SRMv2__TDirOption * SRMv2__TCopyFileRequest::dirOption

Element dirOption of type "http://srm.lbl.gov/StorageResourceManager":TDirOption.

Nullable pointer.

8.302.2.2 xsd__anyURI SRMv2__TCopyFileRequest::sourceSURL

Element sourceSURL of type xs:anyURI.

Required element.

8.302.2.3 xsd__anyURI SRMv2__TCopyFileRequest::targetSURL

Element targetSURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.303 SRMv2__TCopyRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TCopyRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **sourceSURL**
- xsd__anyURI **targetSURL**
- **SRMv2__TReturnStatus** * **status**
- ULONG64 * **fileSize**
- int * **estimatedWaitTime**
- int * **remainingFileLifetime**
- struct **soap** * **soap**

8.303.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TCopyRequestFileStatus is a complexType.

8.303.2 Field Documentation

8.303.2.1 int * SRMv2__TCopyRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int.

Nullable pointer.

8.303.2.2 ULONG64 * SRMv2__TCopyRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong.

Nullable pointer.

8.303.2.3 int * SRMv2__TCopyRequestFileStatus::remainingFileLifetime

Element remainingFileLifetime of type xs:int.

Nullable pointer.

8.303.2.4 xsd__anyURI SRMv2__TCopyRequestFileStatus::sourceSURL

Element sourceSURL of type xs:anyURI.

Required element.

8.303.2.5 SRMv2__TReturnStatus * SRMv2__TCopyRequestFileStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.303.2.6 xsd__anyURI SRMv2__TCopyRequestFileStatus::targetSURL

Element targetSURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.304 SRMv2__TDirOption Class Reference

"http://srm.lbl.gov/StorageResourceManager":TDirOption is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- bool **isSourceADirectory**
- bool * **allLevelRecursive**
- int * **numOfLevels**
- struct **soap** * **soap**

8.304.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TDirOption is a complexType.

8.304.2 Field Documentation

8.304.2.1 bool * SRMv2__TDirOption::allLevelRecursive

Element allLevelRecursive of type xs:boolean.

Nullable pointer.

8.304.2.2 bool SRMv2__TDirOption::isSourceADirectory

Element isSourceADirectory of type xs:boolean.

Required element.

8.304.2.3 int * SRMv2__TDirOption::numOfLevels

Element numOfLevels of type xs:int.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.305 SRMv2__TExtraInfo Class Reference

"http://srm.lbl.gov/StorageResourceManager":TExtraInfo is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **key**
- char * **value**
- struct **soap** * **soap**

8.305.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TExtraInfo is a complexType.

8.305.2 Field Documentation

8.305.2.1 char * SRMv2__TExtraInfo::key

Element key of type xs:string.

Required element.

8.305.2.2 char * SRMv2__TExtraInfo::value

Element value of type xs:string.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.306 SRMv2__TGetFileRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":TGetFileRequest is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **sourceSURL**
- **SRMv2__TDirOption** * **dirOption**
- struct **soap** * **soap**

8.306.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TGetFileRequest is a complexType.

8.306.2 Field Documentation

8.306.2.1 SRMv2__TDirOption * SRMv2__TGetFileRequest::dirOption

Element dirOption of type "http://srm.lbl.gov/StorageResourceManager":TDirOption.

Nullable pointer.

8.306.2.2 xsd__anyURI SRMv2__TGetFileRequest::sourceSURL

Element sourceSURL of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.307 SRMv2__TGetRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TGetRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **sourceSURL**
- ULONG64 * **fileSize**
- **SRMv2__TReturnStatus** * **status**
- int * **estimatedWaitTime**
- int * **remainingPinTime**
- xsd__anyURI **transferURL**
- **SRMv2__ArrayOfTExtraInfo** * **transferProtocolInfo**
- struct **soap** * **soap**

8.307.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TGetRequestFileStatus is a complexType.

8.307.2 Field Documentation

8.307.2.1 int * SRMv2__TGetRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int.

Nullable pointer.

8.307.2.2 ULONG64 * SRMv2__TGetRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong.

Nullable pointer.

8.307.2.3 int * SRMv2__TGetRequestFileStatus::remainingPinTime

Element remainingPinTime of type xs:int.

Nullable pointer.

8.307.2.4 xsd__anyURI SRMv2__TGetRequestFileStatus::sourceSURL

Element sourceSURL of type xs:anyURI.

Required element.

8.307.2.5 SRMv2__TReturnStatus * SRMv2__TGetRequestFileStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.307.2.6 SRMv2__ArrayOfTExtraInfo * SRMv2__TGetRequestFileStatus::transferProtocolInfo

Element transferProtocolInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.307.2.7 xsd__anyURI SRMv2__TGetRequestFileStatus::transferURL

Element transferURL of type xs:anyURI.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.308 SRMv2__TGroupPermission Class Reference

"http://srm.lbl.gov/StorageResourceManager":TGroupPermission is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **groupID**
- enum SRMv2__TPermissionMode **mode**
- struct **soap** * **soap**

8.308.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TGroupPermission is a complexType.

8.308.2 Field Documentation

8.308.2.1 char * SRMv2__TGroupPermission::groupID

Element groupID of type xs:string.

Required element.

8.308.2.2 enum SRMv2__TPermissionMode SRMv2__TGroupPermission::mode

Element mode of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.309 SRMv2__TMetaDataPathDetail Class Reference

"http://srm.lbl.gov/StorageResourceManager":TMetaDataPathDetail is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **path**
- **SRMv2__TReturnStatus** * **status**
- ULONG64 * **size**
- time_t * **createdAtTime**
- time_t * **lastModificationTime**
- enum SRMv2__TFileStorageType * **fileStorageType**
- **SRMv2__TRetentionPolicyInfo** * **retentionPolicyInfo**
- enum SRMv2__TFileLocality * **fileLocality**
- **SRMv2__ArrayOfString** * **arrayOfSpaceTokens**
- enum SRMv2__TFileType * **type**
- int * **lifetimeAssigned**
- int * **lifetimeLeft**
- **SRMv2__TUserPermission** * **ownerPermission**
- **SRMv2__TGroupPermission** * **groupPermission**
- enum SRMv2__TPermissionMode * **otherPermission**
- char * **checkSumType**
- char * **checkSumValue**
- **SRMv2__ArrayOfTMetaDataPathDetail** * **arrayOfSubPaths**
- struct **soap** * **soap**

8.309.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TMetaDataPathDetail is a complexType.

8.309.2 Field Documentation

8.309.2.1 SRMv2__ArrayOfString * SRMv2__TMetaDataPathDetail::arrayOfSpaceTokens

Element arrayOfSpaceTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString.

Nullable pointer.

8.309.2.2 SRMv2__ArrayOfTMetaDataPathDetail* SRMv2__TMetaDataPathDetail::arrayOfSubPaths

Element arrayOfSubPaths of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail.

Nullable pointer.

8.309.2.3 char * SRMv2__TMetaDataPathDetail::checkSumType

Element checkSumType of type xs:string.

Nullable pointer.

8.309.2.4 char * SRMv2__TMetaDataPathDetail::checkSumValue

Element checkSumValue of type xs:string.

Nullable pointer.

8.309.2.5 time_t * SRMv2__TMetaDataPathDetail::createdAtTime

Element createdAtTime of type xs:dateTime.

Nullable pointer.

8.309.2.6 enum SRMv2__TFileLocality * SRMv2__TMetaDataPathDetail::fileLocality

Element fileLocality of type "http://srm.lbl.gov/StorageResourceManager":TFileLocality.

Nullable pointer.

8.309.2.7 enum SRMv2__TFileStorageType * SRMv2__TMetaDataPathDetail::fileStorageType

Element fileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType.

Nullable pointer.

8.309.2.8 SRMv2__TGroupPermission * SRMv2__TMetaDataPathDetail::groupPermission

Element groupPermission of type "http://srm.lbl.gov/StorageResourceManager":TGroupPermission.
Nullable pointer.

8.309.2.9 time_t * SRMv2__TMetaDataPathDetail::lastModificationTime

Element lastModificationTime of type xs:dateTime.
Nullable pointer.

8.309.2.10 int * SRMv2__TMetaDataPathDetail::lifetimeAssigned

Element lifetimeAssigned of type xs:int.
Nullable pointer.

8.309.2.11 int * SRMv2__TMetaDataPathDetail::lifetimeLeft

Element lifetimeLeft of type xs:int.
Nullable pointer.

8.309.2.12 enum SRMv2__TPermissionMode * SRMv2__TMetaDataPathDetail::otherPermission

Element otherPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.
Nullable pointer.

8.309.2.13 SRMv2__TUserPermission * SRMv2__TMetaDataPathDetail::ownerPermission

Element ownerPermission of type "http://srm.lbl.gov/StorageResourceManager":TUserPermission.
Nullable pointer.

8.309.2.14 char * SRMv2__TMetaDataPathDetail::path

Element path of type xs:string.
Required element.

8.309.2.15 SRMv2__TRetentionPolicyInfo * SRMv2__TMetaDataPathDetail::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.
Nullable pointer.

8.309.2.16 ULONG64 * SRMv2__TMetaDataPathDetail::size

Element size of type xs:unsignedLong.
Nullable pointer.

8.309.2.17 SRMv2__TReturnStatus * SRMv2__TMetaDataPathDetail::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Nullable pointer.

8.309.2.18 enum SRMv2__TFileType * SRMv2__TMetaDataPathDetail::type

Element type of type "http://srm.lbl.gov/StorageResourceManager":TFileType.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.310 SRMv2__TMetaDataSpace Class Reference

"http://srm.lbl.gov/StorageResourceManager":TMetaDataSpace is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **spaceToken**
- **SRMv2__TReturnStatus** * **status**
- **SRMv2__TRetentionPolicyInfo** * **retentionPolicyInfo**
- char * **owner**
- ULONG64 * **totalSize**
- ULONG64 * **guaranteedSize**
- ULONG64 * **unusedSize**
- int * **lifetimeAssigned**
- int * **lifetimeLeft**
- struct **soap** * **soap**

8.310.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TMetaDataSpace is a complexType.

8.310.2 Field Documentation

8.310.2.1 ULONG64 * SRMv2__TMetaDataSpace::guaranteedSize

Element guaranteedSize of type xs:unsignedLong.

Nullable pointer.

8.310.2.2 int * SRMv2__TMetaDataSpace::lifetimeAssigned

Element lifetimeAssigned of type xs:int.

Nullable pointer.

8.310.2.3 int * SRMv2__TMetaDataSpace::lifetimeLeft

Element lifetimeLeft of type xs:int.

Nullable pointer.

8.310.2.4 char * SRMv2__TMetaDataSpace::owner

Element owner of type xs:string.

Nullable pointer.

8.310.2.5 SRMv2__TRetentionPolicyInfo * SRMv2__TMetaDataSpace::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo.

Nullable pointer.

8.310.2.6 char * SRMv2__TMetaDataSpace::spaceToken

Element spaceToken of type xs:string.

Required element.

8.310.2.7 SRMv2__TReturnStatus * SRMv2__TMetaDataSpace::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Nullable pointer.

8.310.2.8 ULONG64 * SRMv2__TMetaDataSpace::totalSize

Element totalSize of type xs:unsignedLong.

Nullable pointer.

8.310.2.9 ULONG64 * SRMv2__TMetaDataSpace::unusedSize

Element unusedSize of type xs:unsignedLong.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.311 SRMv2__TPermissionReturn Class Reference

"http://srm.lbl.gov/StorageResourceManager":TPermissionReturn is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **surl**
- **SRMv2__TReturnStatus** * **status**
- char * **owner**
- enum SRMv2__TPermissionMode * **ownerPermission**
- **SRMv2__ArrayOfTUserPermission** * **arrayOfUserPermissions**
- **SRMv2__ArrayOfTGroupPermission** * **arrayOfGroupPermissions**
- enum SRMv2__TPermissionMode * **otherPermission**
- struct **soap** * **soap**

8.311.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TPermissionReturn is a complexType.

8.311.2 Field Documentation

8.311.2.1 SRMv2__ArrayOfTGroupPermission * SRMv2__TPermissionReturn::arrayOfGroupPermissions

Element arrayOfGroupPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission.

Nullable pointer.

8.311.2.2 SRMv2__ArrayOfTUserPermission * SRMv2__TPermissionReturn::arrayOfUserPermissions

Element arrayOfUserPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission.

Nullable pointer.

8.311.2.3 enum SRMv2__TPermissionMode * SRMv2__TPermissionReturn::otherPermission

Element otherPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.

Nullable pointer.

8.311.2.4 char * SRMv2__TPermissionReturn::owner

Element owner of type xs:string.

Nullable pointer.

8.311.2.5 enum SRMv2__TPermissionMode * SRMv2__TPermissionReturn::ownerPermission

Element ownerPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.
Nullable pointer.

8.311.2.6 SRMv2__TReturnStatus * SRMv2__TPermissionReturn::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.
Nullable pointer.

8.311.2.7 xsd__anyURI SRMv2__TPermissionReturn::surl

Element surl of type xs:anyURI.
Required element.
The documentation for this class was generated from the following files:

- srm2_2_soap.h
- srm2_2_soapStub.h

8.312 SRMv2__TPutFileRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":TPutFileRequest is a complexType.
`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **targetSURL**
- ULONG64 * **expectedFileSize**
- struct **soap** * **soap**

8.312.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TPutFileRequest is a complexType.

8.312.2 Field Documentation

8.312.2.1 ULONG64 * SRMv2__TPutFileRequest::expectedFileSize

Element expectedFileSize of type xs:unsignedLong.
Nullable pointer.

8.312.2.2 xsd__anyURI SRMv2__TPutFileRequest::targetSURL

Element targetSURL of type xs:anyURI.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.313 SRMv2__TPutRequestFileStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TPutRequestFileStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **SURL**
- **SRMv2__TReturnStatus** * **status**
- ULONG64 * **fileSize**
- int * **estimatedWaitTime**
- int * **remainingPinLifetime**
- int * **remainingFileLifetime**
- xsd__anyURI **transferURL**
- **SRMv2__ArrayOfTExtraInfo** * **transferProtocolInfo**
- struct **soap** * **soap**

8.313.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TPutRequestFileStatus is a complexType.

8.313.2 Field Documentation

8.313.2.1 int * SRMv2__TPutRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int.

Nullable pointer.

8.313.2.2 ULONG64 * SRMv2__TPutRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong.

Nullable pointer.

8.313.2.3 int * SRMv2__TPutRequestFileStatus::remainingFileLifetime

Element remainingFileLifetime of type xs:int.

Nullable pointer.

8.313.2.4 int * SRMv2__TPutRequestFileStatus::remainingPinLifetime

Element remainingPinLifetime of type xs:int.

Nullable pointer.

8.313.2.5 SRMv2__TReturnStatus * SRMv2__TPutRequestFileStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.313.2.6 xsd__anyURI SRMv2__TPutRequestFileStatus::SURL

Element SURL of type xs:anyURI.

Required element.

8.313.2.7 SRMv2__ArrayOfTExtraInfo * SRMv2__TPutRequestFileStatus::transferProtocolInfo

Element transferProtocolInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.313.2.8 xsd__anyURI SRMv2__TPutRequestFileStatus::transferURL

Element transferURL of type xs:anyURI.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.314 SRMv2__TRequestSummary Class Reference

"http://srm.lbl.gov/StorageResourceManager":TRequestSummary is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- **SRMv2__TReturnStatus** * **status**
- enum SRMv2__TRequestType * **requestType**
- int * **totalNumFilesInRequest**
- int * **numOfCompletedFiles**
- int * **numOfWaitingFiles**
- int * **numOfFailedFiles**
- struct **soap** * **soap**

8.314.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TRequestSummary is a complexType.

8.314.2 Field Documentation

8.314.2.1 int * SRMv2__TRequestSummary::numOfCompletedFiles

Element numOfCompletedFiles of type xs:int.

Nullable pointer.

8.314.2.2 int * SRMv2__TRequestSummary::numOfFailedFiles

Element numOfFailedFiles of type xs:int.

Nullable pointer.

8.314.2.3 int * SRMv2__TRequestSummary::numOfWaitingFiles

Element numOfWaitingFiles of type xs:int.

Nullable pointer.

8.314.2.4 char * SRMv2__TRequestSummary::requestToken

Element requestToken of type xs:string.

Required element.

8.314.2.5 enum SRMv2__TRequestType * SRMv2__TRequestSummary::requestType

Element requestType of type "http://srm.lbl.gov/StorageResourceManager":TRequestType.

Nullable pointer.

8.314.2.6 SRMv2__TReturnStatus * SRMv2__TRequestSummary::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.314.2.7 int * SRMv2__TRequestSummary::totalNumFilesInRequest

Element totalNumFilesInRequest of type xs:int.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.315 SRMv2__TRequestTokenReturn Class Reference

"http://srm.lbl.gov/StorageResourceManager":TRequestTokenReturn is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **requestToken**
- time_t * **createdAtTime**
- struct **soap** * **soap**

8.315.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TRequestTokenReturn is a complexType.

8.315.2 Field Documentation

8.315.2.1 time_t * SRMv2__TRequestTokenReturn::createdAtTime

Element createdAtTime of type xs:dateTime.

Nullable pointer.

8.315.2.2 char * SRMv2__TRequestTokenReturn::requestToken

Element requestToken of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.316 SRMv2__TRetentionPolicyInfo Class Reference

"http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- enum SRMv2__TRetentionPolicy **retentionPolicy**
- enum SRMv2__TAccessLatency * **accessLatency**
- struct **soap** * **soap**

8.316.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo is a complexType.

8.316.2 Field Documentation

8.316.2.1 enum SRMv2__TAccessLatency * SRMv2__TRetentionPolicyInfo::accessLatency

Element accessLatency of type "http://srm.lbl.gov/StorageResourceManager":TAccessLatency.

Nullable pointer.

8.316.2.2 enum SRMv2__TRetentionPolicy SRMv2__TRetentionPolicyInfo::retentionPolicy

Element retentionPolicy of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicy.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.317 SRMv2__TReturnStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TReturnStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- enum SRMv2__TStatusCode **statusCode**
- char * **explanation**
- struct **soap** * **soap**

8.317.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TReturnStatus is a complexType.

8.317.2 Field Documentation

8.317.2.1 char * SRMv2__TReturnStatus::explanation

Element explanation of type xs:string.

Nullable pointer.

8.317.2.2 enum SRMv2__TStatusCode SRMv2__TReturnStatus::statusCode

Element statusCode of type "http://srm.lbl.gov/StorageResourceManager":TStatusCode.

Required element.

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

- srm2_2_soap.h

- srm2_2_soapStub.h

8.318 SRMv2__TSupportedTransferProtocol Class Reference

"http://srm.lbl.gov/StorageResourceManager":TSupportedTransferProtocol is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **transferProtocol**
- **SRMv2__ArrayOfTExtraInfo** * **attributes**
- struct **soap** * **soap**

8.318.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TSupportedTransferProtocol is a complexType.

8.318.2 Field Documentation

8.318.2.1 SRMv2__ArrayOfTExtraInfo * SRMv2__TSupportedTransferProtocol::attributes

Element attributes of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo.

Nullable pointer.

8.318.2.2 char * SRMv2__TSupportedTransferProtocol::transferProtocol

Element transferProtocol of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.319 SRMv2__TSURLLifetimeReturnStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TSURLLifetimeReturnStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **surl**
- **SRMv2__TReturnStatus** * **status**
- int * **fileLifetime**
- int * **pinLifetime**
- struct **soap** * **soap**

8.319.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TSURLLifetimeReturnStatus is a complexType.

8.319.2 Field Documentation

8.319.2.1 int * SRMv2__TSURLLifetimeReturnStatus::fileLifetime

Element fileLifetime of type xs:int.

Nullable pointer.

8.319.2.2 int * SRMv2__TSURLLifetimeReturnStatus::pinLifetime

Element pinLifetime of type xs:int.

Nullable pointer.

8.319.2.3 SRMv2__TReturnStatus * SRMv2__TSURLLifetimeReturnStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.

Required element.

8.319.2.4 xsd__anyURI SRMv2__TSURLLifetimeReturnStatus::surl

Element surl of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.320 SRMv2__TSURLPermissionReturn Class Reference

"http://srm.lbl.gov/StorageResourceManager":TSURLPermissionReturn is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **surl**
- **SRMv2__TReturnStatus** * **status**
- enum SRMv2__TPermissionMode * **permission**
- struct **soap** * **soap**

8.320.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TSURLPermissionReturn is a complexType.

8.320.2 Field Documentation

8.320.2.1 enum SRMv2__TPermissionMode * SRMv2__TSURLPermissionReturn::permission

Element permission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.
Nullable pointer.

8.320.2.2 SRMv2__TReturnStatus * SRMv2__TSURLPermissionReturn::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.
Required element.

8.320.2.3 xsd__anyURI SRMv2__TSURLPermissionReturn::surl

Element surl of type xs:anyURI.
Required element.
The documentation for this class was generated from the following files:

- srm2_2_soap.h
- srm2_2_soapStub.h

8.321 SRMv2__TSURLReturnStatus Class Reference

"http://srm.lbl.gov/StorageResourceManager":TSURLReturnStatus is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- xsd__anyURI **surl**
- **SRMv2__TReturnStatus** * **status**
- struct **soap** * **soap**

8.321.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TSURLReturnStatus is a complexType.

8.321.2 Field Documentation

8.321.2.1 SRMv2__TReturnStatus * SRMv2__TSURLReturnStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus.
Required element.

8.321.2.2 xsd__anyURI SRMv2__TSURLReturnStatus::surl

Element surl of type xs:anyURI.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.322 SRMv2__TTransferParameters Class Reference

"http://srm.lbl.gov/StorageResourceManager":TTransferParameters is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- enum SRMv2__TAccessPattern * **accessPattern**
- enum SRMv2__TConnectionType * **connectionType**
- **SRMv2__ArrayOfString** * **arrayOfClientNetworks**
- **SRMv2__ArrayOfString** * **arrayOfTransferProtocols**
- struct **soap** * **soap**

8.322.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TTransferParameters is a complexType.

8.322.2 Field Documentation

8.322.2.1 enum SRMv2__TAccessPattern * SRMv2__TTransferParameters::accessPattern

Element accessPattern of type "http://srm.lbl.gov/StorageResourceManager":TAccessPattern.

Nullable pointer.

8.322.2.2 SRMv2__ArrayOfString * SRMv2__TTransferParameters::arrayOfClientNetworks

Element arrayOfClientNetworks of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString.

Nullable pointer.

8.322.2.3 SRMv2__ArrayOfString * SRMv2__TTransferParameters::arrayOfTransferProtocols

Element arrayOfTransferProtocols of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString.

Nullable pointer.

8.322.2.4 enum SRMv2__TConnectionType * SRMv2__TTransferParameters::connectionType

Element connectionType of type "http://srm.lbl.gov/StorageResourceManager":TConnectionType.

Nullable pointer.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.323 SRMv2__TUserPermission Class Reference

"http://srm.lbl.gov/StorageResourceManager":TUserPermission is a complexType.

`#include <srm2_2_soap.h>`

Data Fields

- char * **userID**
- enum SRMv2__TPermissionMode **mode**
- struct **soap** * **soap**

8.323.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":TUserPermission is a complexType.

8.323.2 Field Documentation

8.323.2.1 enum SRMv2__TPermissionMode SRMv2__TUserPermission::mode

Element mode of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode.

Required element.

8.323.2.2 char * SRMv2__TUserPermission::userID

Element userID of type xs:string.

Required element.

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

- srm2_2_soap.h
- srm2_2_soapStub.h

8.324 ArcSec::UsernameTokenSH Class Reference

Adds WS-Security Username Token into SOAP Header.

`#include <UsernameTokenSH.h>`

8.324.1 Detailed Description

Adds WS-Security Username Token into SOAP Header.

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

- UsernameTokenSH.h

8.325 ArcSec::X509TokenSH Class Reference

Adds WS-Security X509 Token into SOAP Header.

`#include <X509TokenSH.h>`

8.325.1 Detailed Description

Adds WS-Security X509 Token into SOAP Header.

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

- X509TokenSH.h

8.326 ArcSec::XACMLAlgFactory Class Reference

Algorithm factory class for XACML.

`#include <XACMLAlgFactory.h>`

Public Member Functions

- virtual CombiningAlg * **createAlg** (const std::string &type)

8.326.1 Detailed Description

Algorithm factory class for XACML.

8.326.2 Member Function Documentation

8.326.2.1 virtual CombiningAlg* ArcSec::XACMLAlgFactory::createAlg (const std::string & *type*) [virtual]

return a Alg object according to the "CombiningAlg" attribute in the <Policy> node; The **XACMLAlgFactory** (p. 231) itself will release the Alg objects

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

- XACMLAlgFactory.h

8.327 ArcSec::XACMLApply Class Reference

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

- XACMLApply.h

8.328 ArcSec::XACMLAttributeFactory Class Reference

Attribute factory class for XACML specified attributes.

`#include <XACMLAttributeFactory.h>`

Public Member Functions

- virtual AttributeValue * **createValue** (const Arc::XMLNode &node, const std::string &type)

8.328.1 Detailed Description

Attribute factory class for XACML specified attributes.

8.328.2 Member Function Documentation

8.328.2.1 virtual AttributeValue* ArcSec::XACMLAttributeFactory::createValue (const Arc::XMLNode & *node*, const std::string & *type*) [virtual]

creat a AttributeValue according to the value in the XML node and the type; It should be the caller to release the AttributeValue Object

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

- XACMLAttributeFactory.h

8.329 ArcSec::XACMLAttributeProxy< TheAttribute > Class Template Reference

XACML specific AttributeProxy class.

`#include <XACMLAttributeProxy.h>`

Public Member Functions

- virtual AttributeValue * **getAttribute** (const Arc::XMLNode &node)

8.329.1 Detailed Description

template<class TheAttribute> class ArcSec::XACMLAttributeProxy< TheAttribute >

XACML specific AttributeProxy class.

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

- XACMLAttributeProxy.h

8.330 ArcSec::XACMLCondition Class Reference

XACMLCondition (p. 233) class to parse and operate XACML specific <Condition> node.

`#include <XACMLCondition.h>`

Public Member Functions

- **XACMLCondition** (Arc::XMLNode &node, EvaluatorContext *ctx)

8.330.1 Detailed Description

XACMLCondition (p. 233) class to parse and operate XACML specific <Condition> node.

8.330.2 Constructor & Destructor Documentation

8.330.2.1 ArcSec::XACMLCondition::XACMLCondition (Arc::XMLNode & *node,* EvaluatorContext * *ctx*)

Constructor -

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

- XACMLCondition.h

8.331 ArcSec::XACMLEvaluationCtx Class Reference

EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc.

`#include <XACMLEvaluationCtx.h>`

Public Member Functions

- **XACMLEvaluationCtx** (Request *request)

8.331.1 Detailed Description

EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc.

8.331.2 Constructor & Destructor Documentation

8.331.2.1 ArcSec::XACMLEvaluationCtx::XACMLEvaluationCtx (Request * *request*)

Construct a new EvaluationCtx based on the given request

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

- XACMLEvaluationCtx.h

8.332 ArcSec::XACMLEvaluator Class Reference

Execute the policy evaluation, based on the request and policy.

`#include <XACMLEvaluator.h>`

Public Member Functions

- virtual Response * **evaluate** (Request *request)

8.332.1 Detailed Description

Execute the policy evaluation, based on the request and policy.

8.332.2 Member Function Documentation

8.332.2.1 virtual Response* ArcSec::XACMLEvaluator::evaluate (Request * *request*) [virtual]

Evaluate the request based on the policy information inside PolicyStore

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

- XACMLEvaluator.h

8.333 ArcSec::XACMLFnFactory Class Reference

Function factory class for XACML specified attributes.

`#include <XACMLFnFactory.h>`

Public Member Functions

- virtual Function * **createFn** (const std::string &type)

8.333.1 Detailed Description

Function factory class for XACML specified attributes.

8.333.2 Member Function Documentation

8.333.2.1 virtual Function* ArcSec::XACMLFnFactory::createFn (const std::string & *type*) [virtual]

return a Function object according to the "Function" attribute in the XML node; The **XACMLFnFactory** (p. 234) itself will release the Function objects

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

- XACMLFnFactory.h

8.334 ArcSec::XACMLPDP Class Reference

XACMLPDP (p. 235) - PDP which can handle the XACML specific request and policy schema.

`#include <XACMLPDP.h>`

8.334.1 Detailed Description

XACMLPDP (p. 235) - PDP which can handle the XACML specific request and policy schema.

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

- XACMLPDP.h

8.335 ArcSec::XACMLPolicy Class Reference

XACMLPolicy (p. 235) class to parse and operate XACML specific <Policy> node.

`#include <XACMLPolicy.h>`

Public Member Functions

- **XACMLPolicy** (void)
- **XACMLPolicy** (const Arc::XMLNode node)
- **XACMLPolicy** (const Arc::XMLNode node, EvaluatorContext *ctx)
- virtual void **make_policy** ()

8.335.1 Detailed Description

XACMLPolicy (p. 235) class to parse and operate XACML specific <Policy> node.

8.335.2 Constructor & Destructor Documentation

8.335.2.1 ArcSec::XACMLPolicy::XACMLPolicy (void)

Constructor

8.335.2.2 ArcSec::XACMLPolicy::XACMLPolicy (const Arc::XMLNode *node*)

Constructor

8.335.2.3 ArcSec::XACMLPolicy::XACMLPolicy (const Arc::XMLNode *node*, EvaluatorContext * *ctx*)

Constructor -

8.335.3 Member Function Documentation

8.335.3.1 virtual void ArcSec::XACMLPolicy::make_policy ( ) [virtual]

Parse XMLNode, and construct the low-level Rule object

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

- XACMLPolicy.h

8.336 ArcSec::XACMLRequest Class Reference

Public Member Functions

- virtual const char * **getEvalName** () const
- virtual const char * **getName** () const

8.336.1 Member Function Documentation

8.336.1.1 virtual const char* ArcSec::XACMLRequest::getEvalName ( ) const [inline, virtual]

Get the name of corresponding evaulator

8.336.1.2 virtual const char* ArcSec::XACMLRequest::getName (void) const [inline, virtual]

Get the name of this request

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

- XACMLRequest.h

8.337 ArcSec::XACMLRule Class Reference

XACMLRule (p. 236) class to parse XACML specific <Rule> node.

`#include <XACMLRule.h>`

8.337.1 Detailed Description

XACMLRule (p. 236) class to parse XACML specific <Rule> node.

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

- XACMLRule.h

8.338 ArcSec::XACMLTarget Class Reference

XACMLTarget (p. 237) class to parse and operate XACML specific <Target> node.

`#include <XACMLTarget.h>`

Public Member Functions

- **XACMLTarget** (Arc::XMLNode &node, EvaluatorContext *ctx)

8.338.1 Detailed Description

XACMLTarget (p. 237) class to parse and operate XACML specific <Target> node.

8.338.2 Constructor & Destructor Documentation

8.338.2.1 ArcSec::XACMLTarget::XACMLTarget (Arc::XMLNode & *node,* EvaluatorContext * *ctx*)

Constructor -

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

- XACMLTarget.h

8.339 ArcSec::XACMLTargetMatch Class Reference

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

- XACMLTarget.h

8.340 ArcSec::XACMLTargetMatchGroup Class Reference

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

- XACMLTarget.h

8.341 ArcSec::XACMLTargetSection Class Reference

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

- XACMLTarget.h

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