

## Hosting Environment (Daemon) Chain Components

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# Contents

<b>1</b>	<b>SRMServerV1 Definitions</b>	<b>1</b>
1.1	Bindings . . . . .	1
<b>2</b>	<b>Binding "ISRM"</b>	<b>3</b>
2.1	Service Documentation "SRMServerV1" . . . . .	4
2.2	Operations of Binding "ISRM" . . . . .	4
2.3	Endpoints of Binding "ISRM" . . . . .	4
<b>3</b>	<b>Binding "srmSoapBinding"</b>	<b>5</b>
3.1	Port Documentation "srm" . . . . .	6
3.2	Operations of Binding "srmSoapBinding" . . . . .	6
3.3	Endpoints of Binding "srmSoapBinding" . . . . .	7
<b>4</b>	<b>Namespace Index</b>	<b>9</b>
4.1	Namespace List . . . . .	9
<b>5</b>	<b>Data Structure Index</b>	<b>11</b>
5.1	Class Hierarchy . . . . .	11
<b>6</b>	<b>Data Structure Index</b>	<b>17</b>
6.1	Data Structures . . . . .	17
<b>7</b>	<b>Namespace Documentation</b>	<b>27</b>
7.1	ArcSec Namespace Reference . . . . .	27
7.1.1	Detailed Description . . . . .	29
7.1.2	Typedef Documentation . . . . .	30
7.1.2.1	AndList . . . . .	30
7.1.2.2	Match . . . . .	30
<b>8</b>	<b>Data Structure Documentation</b>	<b>31</b>
8.1	ArcSec::AllowPDP Class Reference . . . . .	31

8.1.1	Detailed Description . . . . .	31
8.2	ArcSec::ArcAlgFactory Class Reference . . . . .	32
8.2.1	Detailed Description . . . . .	32
8.2.2	Member Function Documentation . . . . .	32
8.2.2.1	createAlg . . . . .	32
8.3	ArcSec::ArcAttributeFactory Class Reference . . . . .	33
8.3.1	Detailed Description . . . . .	33
8.3.2	Member Function Documentation . . . . .	33
8.3.2.1	createValue . . . . .	33
8.4	ArcSec::ArcAttributeProxy< TheAttribute > Class Template Reference . . . . .	34
8.4.1	Detailed Description . . . . .	34
8.5	ArcSec::ArcAuthZ Class Reference . . . . .	35
8.5.1	Detailed Description . . . . .	35
8.5.2	Member Function Documentation . . . . .	35
8.5.2.1	Handle . . . . .	35
8.5.2.2	MakePDPs . . . . .	35
8.6	ArcSec::ArcEvaluationCtx Class Reference . . . . .	36
8.6.1	Detailed Description . . . . .	36
8.6.2	Constructor & Destructor Documentation . . . . .	36
8.6.2.1	ArcEvaluationCtx . . . . .	36
8.6.3	Member Function Documentation . . . . .	36
8.6.3.1	split . . . . .	36
8.7	ArcSec::ArcEvaluator Class Reference . . . . .	37
8.7.1	Detailed Description . . . . .	37
8.7.2	Member Function Documentation . . . . .	37
8.7.2.1	evaluate . . . . .	37
8.8	ArcSec::ArcFnFactory Class Reference . . . . .	38
8.8.1	Detailed Description . . . . .	38
8.8.2	Member Function Documentation . . . . .	38
8.8.2.1	createFn . . . . .	38
8.9	ArcSec::ArcPDP Class Reference . . . . .	39
8.9.1	Detailed Description . . . . .	39
8.10	ArcSec::ArcPolicy Class Reference . . . . .	40
8.10.1	Detailed Description . . . . .	40
8.10.2	Constructor & Destructor Documentation . . . . .	40
8.10.2.1	ArcPolicy . . . . .	40

8.10.2.2	ArcPolicy	40
8.10.2.3	ArcPolicy	40
8.10.3	Member Function Documentation	40
8.10.3.1	make_policy	40
8.11	ArcSec::ArcRequest Class Reference	41
8.12	ArcSec::ArcRequestItem Class Reference	42
8.12.1	Detailed Description	42
8.13	ArcSec::ArcRequestTuple Class Reference	43
8.13.1	Detailed Description	43
8.14	ArcSec::ArcRule Class Reference	44
8.14.1	Detailed Description	44
8.15	ArrayOfboolean Class Reference	45
8.15.1	Detailed Description	45
8.15.2	Field Documentation	45
8.15.2.1	soap	45
8.16	ArrayOfFileMetaData Class Reference	46
8.16.1	Detailed Description	46
8.16.2	Field Documentation	46
8.16.2.1	soap	46
8.17	ArrayOflong Class Reference	47
8.17.1	Detailed Description	47
8.17.2	Field Documentation	47
8.17.2.1	soap	47
8.18	ArrayOfRequestFileStatus Class Reference	48
8.18.1	Detailed Description	48
8.18.2	Field Documentation	48
8.18.2.1	soap	48
8.19	ArrayOfstring Class Reference	49
8.19.1	Detailed Description	49
8.19.2	Field Documentation	49
8.19.2.1	soap	49
8.20	ArcSec::AttributeDesignator Class Reference	50
8.21	ArcSec::AttributeSelector Class Reference	51
8.22	Arc::ConfigTLSMCC Class Reference	52
8.23	Arc::DataPointARC Class Reference	53
8.24	Arc::DataPointFile Class Reference	54

8.25	Arc::DataPointGridFTP Class Reference . . . . .	55
8.26	Arc::DataPointHTTP Class Reference . . . . .	56
8.27	Arc::DataPointLDAP Class Reference . . . . .	57
8.28	Arc::DataPointLFC Class Reference . . . . .	58
8.29	Arc::DataPointRLS Class Reference . . . . .	59
8.30	Arc::DataPointSRM Class Reference . . . . .	60
8.31	ArcSec::DelegationCollector Class Reference . . . . .	61
8.32	ArcSec::DelegationMultiSecAttr Class Reference . . . . .	62
8.33	ArcSec::DelegationPDP Class Reference . . . . .	63
8.33.1	Detailed Description . . . . .	63
8.34	ArcSec::DelegationSecAttr Class Reference . . . . .	64
8.35	ArcSec::DelegationSH Class Reference . . . . .	65
8.36	ArcSec::DenyPDP Class Reference . . . . .	66
8.36.1	Detailed Description . . . . .	66
8.37	ArcSec::GACLEvaluator Class Reference . . . . .	67
8.37.1	Member Function Documentation . . . . .	67
8.37.1.1	evaluate . . . . .	67
8.38	ArcSec::GACLPDP Class Reference . . . . .	68
8.39	ArcSec::GACLPolicy Class Reference . . . . .	69
8.40	ArcSec::GACLRequest Class Reference . . . . .	70
8.41	Arc::HTTPResponseHeader Class Reference . . . . .	71
8.42	Arc::HTTPSClient Class Reference . . . . .	72
8.42.1	Member Function Documentation . . . . .	72
8.42.1.1	connect . . . . .	72
8.43	Arc::HTTPSClientConnector Class Reference . . . . .	73
8.43.1	Member Function Documentation . . . . .	73
8.43.1.1	transfer . . . . .	73
8.44	Arc::HTTPSClientConnectorGlobus Class Reference . . . . .	74
8.44.1	Member Function Documentation . . . . .	74
8.44.1.1	transfer . . . . .	74
8.45	Arc::HTTPSClientConnectorGSSAPI Class Reference . . . . .	75
8.45.1	Member Function Documentation . . . . .	75
8.45.1.1	transfer . . . . .	75
8.46	Arc::HTTPSClientSOAP Class Reference . . . . .	76
8.47	ISRM Class Reference . . . . .	77
8.48	ISRMService Class Reference . . . . .	78

8.49	Arc::LDAPQuery Class Reference . . . . .	79
8.49.1	Detailed Description . . . . .	79
8.49.2	Constructor & Destructor Documentation . . . . .	79
8.49.2.1	LDAPQuery . . . . .	79
8.49.2.2	~LDAPQuery . . . . .	79
8.49.3	Member Function Documentation . . . . .	79
8.49.3.1	Query . . . . .	79
8.49.3.2	Result . . . . .	79
8.50	Arc::Lister Class Reference . . . . .	80
8.51	Arc::MCC_GSI_Client Class Reference . . . . .	81
8.52	Arc::MCC_GSI_Service Class Reference . . . . .	82
8.53	Arc::MCC_HTTP Class Reference . . . . .	83
8.53.1	Detailed Description . . . . .	83
8.54	Arc::MCC_HTTP_Client Class Reference . . . . .	84
8.54.1	Detailed Description . . . . .	84
8.55	Arc::MCC_HTTP_Service Class Reference . . . . .	85
8.55.1	Detailed Description . . . . .	85
8.56	Arc::MCC_SOAP Class Reference . . . . .	86
8.56.1	Detailed Description . . . . .	86
8.57	Arc::MCC_SOAP_Client Class Reference . . . . .	87
8.58	Arc::MCC_SOAP_Service Class Reference . . . . .	88
8.58.1	Detailed Description . . . . .	88
8.59	Arc::MCC_TCP Class Reference . . . . .	89
8.59.1	Detailed Description . . . . .	89
8.60	Arc::MCC_TCP_Client Class Reference . . . . .	90
8.60.1	Detailed Description . . . . .	90
8.61	Arc::MCC_TCP_Service Class Reference . . . . .	91
8.61.1	Detailed Description . . . . .	91
8.61.2	Constructor & Destructor Documentation . . . . .	91
8.61.2.1	MCC_TCP_Service . . . . .	91
8.62	Arc::MCC_TLS Class Reference . . . . .	92
8.62.1	Detailed Description . . . . .	92
8.63	Arc::MCC_TLS_Client Class Reference . . . . .	93
8.63.1	Detailed Description . . . . .	93
8.64	Arc::MCC_TLS_Service Class Reference . . . . .	94
8.64.1	Detailed Description . . . . .	94

8.65	Arc::PayloadGSISStream Class Reference . . . . .	95
8.66	Arc::PayloadHTTP Class Reference . . . . .	96
8.66.1	Detailed Description . . . . .	96
8.66.2	Constructor & Destructor Documentation . . . . .	97
8.66.2.1	PayloadHTTP . . . . .	97
8.66.2.2	PayloadHTTP . . . . .	97
8.66.2.3	PayloadHTTP . . . . .	97
8.66.2.4	PayloadHTTP . . . . .	97
8.66.2.5	PayloadHTTP . . . . .	97
8.66.3	Member Function Documentation . . . . .	97
8.66.3.1	Attribute . . . . .	97
8.66.3.2	Attribute . . . . .	97
8.66.3.3	Attributes . . . . .	97
8.66.3.4	Body . . . . .	98
8.66.3.5	Flush . . . . .	98
8.66.3.6	get_body . . . . .	98
8.66.3.7	parse_header . . . . .	98
8.66.3.8	read . . . . .	98
8.66.3.9	readline . . . . .	98
8.66.4	Field Documentation . . . . .	98
8.66.4.1	attributes_ . . . . .	98
8.66.4.2	body_own_ . . . . .	98
8.66.4.3	chunked_ . . . . .	98
8.66.4.4	code_ . . . . .	98
8.66.4.5	keep_alive_ . . . . .	99
8.66.4.6	length_ . . . . .	99
8.66.4.7	method_ . . . . .	99
8.66.4.8	rbody_ . . . . .	99
8.66.4.9	reason_ . . . . .	99
8.66.4.10	sbody_ . . . . .	99
8.66.4.11	stream_ . . . . .	99
8.66.4.12	stream_own_ . . . . .	99
8.66.4.13	uri_ . . . . .	99
8.66.4.14	version_major_ . . . . .	99
8.66.4.15	version_minor_ . . . . .	99
8.67	Arc::PayloadTCPsocket Class Reference . . . . .	101



8.67.1	Detailed Description	101
8.67.2	Constructor & Destructor Documentation	101
8.67.2.1	PayloadTCPSocket	101
8.67.2.2	PayloadTCPSocket	101
8.67.2.3	PayloadTCPSocket	101
8.67.2.4	PayloadTCPSocket	101
8.67.2.5	PayloadTCPSocket	101
8.68	Arc::PayloadTLMCC Class Reference	102
8.68.1	Constructor & Destructor Documentation	102
8.68.1.1	PayloadTLMCC	102
8.68.1.2	PayloadTLMCC	102
8.68.1.3	PayloadTLMCC	102
8.69	Arc::PayloadTLSSStream Class Reference	103
8.69.1	Detailed Description	103
8.69.2	Constructor & Destructor Documentation	103
8.69.2.1	PayloadTLSSStream	103
8.69.2.2	~PayloadTLSSStream	103
8.69.3	Member Function Documentation	103
8.69.3.1	GetCert	103
8.69.3.2	GetPeerCert	104
8.69.3.3	STACK_OF	104
8.69.4	Field Documentation	104
8.69.4.1	ssl_	104
8.70	ArcSec::PDPSERVICEInvoker Class Reference	105
8.70.1	Detailed Description	105
8.71	ArcSec::SAML2SSO_AssertionConsumerSH Class Reference	106
8.71.1	Detailed Description	106
8.72	ArcSec::SAMLTokenSH Class Reference	107
8.72.1	Detailed Description	107
8.73	ArcSec::SimpleListPDP Class Reference	108
8.73.1	Detailed Description	108
8.74	SRM1Client Class Reference	109
8.74.1	Member Function Documentation	109
8.74.1.1	abort	109
8.74.1.2	copy	110
8.74.1.3	getRequestTokens	110

8.74.1.4	getSpaceTokens . . . . .	110
8.74.1.5	getTURLs . . . . .	111
8.74.1.6	info . . . . .	111
8.74.1.7	mkDir . . . . .	111
8.74.1.8	ping . . . . .	112
8.74.1.9	putTURLs . . . . .	112
8.74.1.10	release . . . . .	112
8.74.1.11	releaseGet . . . . .	113
8.74.1.12	releasePut . . . . .	113
8.74.1.13	remove . . . . .	113
8.74.1.14	requestBringOnline . . . . .	113
8.74.1.15	requestBringOnlineStatus . . . . .	114
8.75	SRM22Client Class Reference . . . . .	115
8.75.1	Member Function Documentation . . . . .	115
8.75.1.1	abort . . . . .	115
8.75.1.2	copy . . . . .	115
8.75.1.3	getRequestTokens . . . . .	115
8.75.1.4	getSpaceTokens . . . . .	116
8.75.1.5	getTURLs . . . . .	116
8.75.1.6	info . . . . .	116
8.75.1.7	mkDir . . . . .	116
8.75.1.8	ping . . . . .	116
8.75.1.9	putTURLs . . . . .	116
8.75.1.10	release . . . . .	116
8.75.1.11	releaseGet . . . . .	117
8.75.1.12	releasePut . . . . .	117
8.75.1.13	remove . . . . .	117
8.75.1.14	requestBringOnline . . . . .	117
8.75.1.15	requestBringOnlineStatus . . . . .	117
8.76	SRMClient Class Reference . . . . .	118
8.76.1	Detailed Description . . . . .	119
8.76.2	Constructor & Destructor Documentation . . . . .	119
8.76.2.1	~SRMClient . . . . .	119
8.76.3	Member Function Documentation . . . . .	119
8.76.3.1	abort . . . . .	119
8.76.3.2	connect . . . . .	119

8.76.3.3	copy . . . . .	119
8.76.3.4	disconnect . . . . .	120
8.76.3.5	getInstance . . . . .	120
8.76.3.6	getRequestTokens . . . . .	120
8.76.3.7	getSpaceTokens . . . . .	120
8.76.3.8	getTURLs . . . . .	121
8.76.3.9	getVersion . . . . .	121
8.76.3.10	info . . . . .	121
8.76.3.11	mkDir . . . . .	122
8.76.3.12	ping . . . . .	122
8.76.3.13	putTURLs . . . . .	122
8.76.3.14	release . . . . .	123
8.76.3.15	releaseGet . . . . .	123
8.76.3.16	releasePut . . . . .	123
8.76.3.17	remove . . . . .	123
8.76.3.18	requestBringOnline . . . . .	124
8.76.3.19	requestBringOnlineStatus . . . . .	124
8.76.3.20	Timeout . . . . .	124
8.76.4	Field Documentation . . . . .	124
8.76.4.1	csoap . . . . .	124
8.76.4.2	implementation . . . . .	125
8.76.4.3	logger . . . . .	125
8.76.4.4	request_timeout . . . . .	125
8.76.4.5	service_endpoint . . . . .	125
8.76.4.6	version . . . . .	125
8.77	SRMClientRequest Class Reference . . . . .	126
8.77.1	Detailed Description . . . . .	126
8.77.2	Constructor & Destructor Documentation . . . . .	126
8.77.2.1	SRMClientRequest . . . . .	126
8.77.2.2	SRMClientRequest . . . . .	126
8.77.3	Member Function Documentation . . . . .	126
8.77.3.1	file_ids . . . . .	126
8.77.3.2	finished_success . . . . .	126
8.77.3.3	long_list . . . . .	127
8.77.3.4	request_id . . . . .	127
8.77.3.5	request_token . . . . .	127

8.77.3.6	space_token . . . . .	127
8.77.3.7	surl_failures . . . . .	127
8.77.3.8	surl_statuses . . . . .	127
8.77.3.9	surls . . . . .	127
8.77.3.10	waiting_time . . . . .	127
8.78	SRMFileInfo Class Reference . . . . .	128
8.78.1	Detailed Description . . . . .	128
8.79	SRMFileMetaData Struct Reference . . . . .	129
8.79.1	Detailed Description . . . . .	129
8.80	SRMInfo Class Reference . . . . .	130
8.80.1	Detailed Description . . . . .	130
8.81	SRMInvalidRequestException Class Reference . . . . .	131
8.82	srmSoapBinding Class Reference . . . . .	132
8.83	srmSoapBindingService Class Reference . . . . .	135
8.84	SRMURL Class Reference . . . . .	136
8.84.1	Constructor & Destructor Documentation . . . . .	136
8.84.1.1	SRMURL . . . . .	136
8.84.2	Member Function Documentation . . . . .	136
8.84.2.1	BaseURL . . . . .	136
8.84.2.2	ContactURL . . . . .	136
8.84.2.3	Endpoint . . . . .	136
8.84.2.4	FileName . . . . .	136
8.84.2.5	FullURL . . . . .	136
8.84.2.6	PortDefined . . . . .	136
8.84.2.7	SetSRMVersion . . . . .	137
8.84.2.8	ShortURL . . . . .	137
8.85	SRMv1Meth__advisoryDeleteResponse Struct Reference . . . . .	138
8.85.1	Detailed Description . . . . .	138
8.86	SRMv1Meth__copyResponse Struct Reference . . . . .	139
8.86.1	Detailed Description . . . . .	139
8.87	SRMv1Meth__getEstGetTimeResponse Struct Reference . . . . .	140
8.87.1	Detailed Description . . . . .	140
8.88	SRMv1Meth__getEstPutTimeResponse Struct Reference . . . . .	141
8.88.1	Detailed Description . . . . .	141
8.89	SRMv1Meth__getFileMetaDataResponse Struct Reference . . . . .	142
8.89.1	Detailed Description . . . . .	142

8.90	SRMv1Meth__getProtocolsResponse Struct Reference . . . . .	143
8.90.1	Detailed Description . . . . .	143
8.91	SRMv1Meth__getRequestStatusResponse Struct Reference . . . . .	144
8.91.1	Detailed Description . . . . .	144
8.92	SRMv1Meth__getResponse Struct Reference . . . . .	145
8.92.1	Detailed Description . . . . .	145
8.93	SRMv1Meth__mkPermanentResponse Struct Reference . . . . .	146
8.93.1	Detailed Description . . . . .	146
8.94	SRMv1Meth__pinResponse Struct Reference . . . . .	147
8.94.1	Detailed Description . . . . .	147
8.95	SRMv1Meth__putResponse Struct Reference . . . . .	148
8.95.1	Detailed Description . . . . .	148
8.96	SRMv1Meth__setFileStatusResponse Struct Reference . . . . .	149
8.96.1	Detailed Description . . . . .	149
8.97	SRMv1Meth__unPinResponse Struct Reference . . . . .	150
8.97.1	Detailed Description . . . . .	150
8.98	SRMv1Type__FileMetaData Class Reference . . . . .	151
8.98.1	Detailed Description . . . . .	151
8.98.2	Field Documentation . . . . .	151
8.98.2.1	checksumType . . . . .	151
8.98.2.2	checksumValue . . . . .	151
8.98.2.3	group . . . . .	151
8.98.2.4	isCached . . . . .	151
8.98.2.5	isPermanent . . . . .	152
8.98.2.6	isPinned . . . . .	152
8.98.2.7	owner . . . . .	152
8.98.2.8	permMode . . . . .	152
8.98.2.9	size . . . . .	152
8.98.2.10	SURL . . . . .	152
8.99	SRMv1Type__RequestFileStatus Class Reference . . . . .	153
8.99.1	Detailed Description . . . . .	153
8.99.2	Field Documentation . . . . .	153
8.99.2.1	destFilename . . . . .	153
8.99.2.2	estSecondsToStart . . . . .	153
8.99.2.3	fileId . . . . .	153
8.99.2.4	queueOrder . . . . .	153

8.99.2.5 sourceFilename . . . . .	154
8.99.2.6 state . . . . .	154
8.99.2.7 TURL . . . . .	154
8.100SRMv1Type__RequestStatus Class Reference . . . . .	155
8.100.1 Detailed Description . . . . .	155
8.100.2 Field Documentation . . . . .	155
8.100.2.1 errorMessage . . . . .	155
8.100.2.2 estTimeToStart . . . . .	155
8.100.2.3 fileStatuses . . . . .	155
8.100.2.4 finishTime . . . . .	155
8.100.2.5 requestId . . . . .	155
8.100.2.6 retryDeltaTime . . . . .	156
8.100.2.7 startTime . . . . .	156
8.100.2.8 state . . . . .	156
8.100.2.9 submitTime . . . . .	156
8.100.2.10type . . . . .	156
8.101SRMv2__ArrayOfAnyURI Class Reference . . . . .	157
8.101.1 Detailed Description . . . . .	157
8.101.2 Field Documentation . . . . .	157
8.101.2.1 urlArray . . . . .	157
8.102SRMv2__ArrayOfString Class Reference . . . . .	158
8.102.1 Detailed Description . . . . .	158
8.102.2 Field Documentation . . . . .	158
8.102.2.1 stringArray . . . . .	158
8.103SRMv2__ArrayOfTBringOnlineRequestFileStatus Class Reference . . . . .	159
8.103.1 Detailed Description . . . . .	159
8.103.2 Field Documentation . . . . .	159
8.103.2.1 statusArray . . . . .	159
8.104SRMv2__ArrayOfTCopyFileRequest Class Reference . . . . .	160
8.104.1 Detailed Description . . . . .	160
8.104.2 Field Documentation . . . . .	160
8.104.2.1 requestArray . . . . .	160
8.105SRMv2__ArrayOfTCopyRequestFileStatus Class Reference . . . . .	161
8.105.1 Detailed Description . . . . .	161
8.106SRMv2__ArrayOfTExtraInfo Class Reference . . . . .	162
8.106.1 Detailed Description . . . . .	162

8.106.2 Field Documentation . . . . .	162
8.106.2.1 extraInfoArray . . . . .	162
8.107SRMv2__ArrayOfTGetFileRequest Class Reference . . . . .	163
8.107.1 Detailed Description . . . . .	163
8.107.2 Field Documentation . . . . .	163
8.107.2.1 requestArray . . . . .	163
8.108SRMv2__ArrayOfTGetRequestFileStatus Class Reference . . . . .	164
8.108.1 Detailed Description . . . . .	164
8.108.2 Field Documentation . . . . .	164
8.108.2.1 statusArray . . . . .	164
8.109SRMv2__ArrayOfTGroupPermission Class Reference . . . . .	165
8.109.1 Detailed Description . . . . .	165
8.109.2 Field Documentation . . . . .	165
8.109.2.1 groupPermissionArray . . . . .	165
8.110SRMv2__ArrayOfTMetaDataPathDetail Class Reference . . . . .	166
8.110.1 Detailed Description . . . . .	166
8.110.2 Field Documentation . . . . .	166
8.110.2.1 pathDetailArray . . . . .	166
8.111SRMv2__ArrayOfTMetaDataSpace Class Reference . . . . .	167
8.111.1 Detailed Description . . . . .	167
8.111.2 Field Documentation . . . . .	167
8.111.2.1 spaceDataArray . . . . .	167
8.112SRMv2__ArrayOfTPermissionReturn Class Reference . . . . .	168
8.112.1 Detailed Description . . . . .	168
8.112.2 Field Documentation . . . . .	168
8.112.2.1 permissionArray . . . . .	168
8.113SRMv2__ArrayOfTPutFileRequest Class Reference . . . . .	169
8.113.1 Detailed Description . . . . .	169
8.113.2 Field Documentation . . . . .	169
8.113.2.1 requestArray . . . . .	169
8.114SRMv2__ArrayOfTPutRequestFileStatus Class Reference . . . . .	170
8.114.1 Detailed Description . . . . .	170
8.115SRMv2__ArrayOfTRequestSummary Class Reference . . . . .	171
8.115.1 Detailed Description . . . . .	171
8.115.2 Field Documentation . . . . .	171
8.115.2.1 summaryArray . . . . .	171

8.116SRMv2__ArrayOfTRequestTokenReturn Class Reference . . . . .	172
8.116.1 Detailed Description . . . . .	172
8.116.2 Field Documentation . . . . .	172
8.116.2.1 tokenArray . . . . .	172
8.117SRMv2__ArrayOfTSupportedTransferProtocol Class Reference . . . . .	173
8.117.1 Detailed Description . . . . .	173
8.117.2 Field Documentation . . . . .	173
8.117.2.1 protocolArray . . . . .	173
8.118SRMv2__ArrayOfTSURLLifetimeReturnStatus Class Reference . . . . .	174
8.118.1 Detailed Description . . . . .	174
8.118.2 Field Documentation . . . . .	174
8.118.2.1 statusArray . . . . .	174
8.119SRMv2__ArrayOfTSURLPermissionReturn Class Reference . . . . .	175
8.119.1 Detailed Description . . . . .	175
8.120SRMv2__ArrayOfTSURLReturnStatus Class Reference . . . . .	176
8.120.1 Detailed Description . . . . .	176
8.120.2 Field Documentation . . . . .	176
8.120.2.1 statusArray . . . . .	176
8.121SRMv2__ArrayOfTUserPermission Class Reference . . . . .	177
8.121.1 Detailed Description . . . . .	177
8.121.2 Field Documentation . . . . .	177
8.121.2.1 userPermissionArray . . . . .	177
8.122SRMv2__ArrayOfUnsignedLong Class Reference . . . . .	178
8.122.1 Detailed Description . . . . .	178
8.122.2 Field Documentation . . . . .	178
8.122.2.1 unsignedLongArray . . . . .	178
8.123SRMv2__srmAbortFilesRequest Class Reference . . . . .	179
8.123.1 Detailed Description . . . . .	179
8.123.2 Field Documentation . . . . .	179
8.123.2.1 arrayOfURLs . . . . .	179
8.123.2.2 authorizationID . . . . .	179
8.123.2.3 requestToken . . . . .	179
8.124SRMv2__srmAbortFilesResponse Class Reference . . . . .	180
8.124.1 Detailed Description . . . . .	180
8.124.2 Field Documentation . . . . .	180
8.124.2.1 arrayOfFileStatuses . . . . .	180



8.124.2.2	returnStatus	180
8.125SRMv2__srmAbortFilesResponse_	Struct Reference	181
8.125.1	Detailed Description	181
8.126SRMv2__srmAbortRequestRequest	Class Reference	182
8.126.1	Detailed Description	182
8.126.2	Field Documentation	182
8.126.2.1	authorizationID	182
8.126.2.2	requestToken	182
8.127SRMv2__srmAbortRequestResponse	Class Reference	183
8.127.1	Detailed Description	183
8.127.2	Field Documentation	183
8.127.2.1	returnStatus	183
8.128SRMv2__srmAbortRequestResponse_	Struct Reference	184
8.128.1	Detailed Description	184
8.129SRMv2__srmBringOnlineRequest	Class Reference	185
8.129.1	Detailed Description	185
8.129.2	Field Documentation	185
8.129.2.1	arrayOfFileRequests	185
8.129.2.2	authorizationID	185
8.129.2.3	soap	185
8.129.2.4	storageSystemInfo	186
8.129.2.5	userRequestDescription	186
8.130SRMv2__srmBringOnlineResponse	Class Reference	187
8.130.1	Detailed Description	187
8.130.2	Field Documentation	187
8.130.2.1	arrayOfFileStatuses	187
8.130.2.2	remainingDeferredStartTime	187
8.130.2.3	remainingTotalRequestTime	187
8.130.2.4	requestToken	187
8.130.2.5	returnStatus	187
8.131SRMv2__srmBringOnlineResponse_	Struct Reference	188
8.131.1	Detailed Description	188
8.132SRMv2__srmChangeSpaceForFilesRequest	Class Reference	189
8.132.1	Detailed Description	189
8.132.2	Field Documentation	189
8.132.2.1	arrayOfSURLs	189

8.132.2.2 authorizationID . . . . .	189
8.132.2.3 storageSystemInfo . . . . .	189
8.132.2.4 targetSpaceToken . . . . .	189
8.133SRMv2__srmChangeSpaceForFilesResponse Class Reference . . . . .	190
8.133.1 Detailed Description . . . . .	190
8.133.2 Field Documentation . . . . .	190
8.133.2.1 arrayOfFileStatuses . . . . .	190
8.133.2.2 estimatedProcessingTime . . . . .	190
8.133.2.3 requestToken . . . . .	190
8.133.2.4 returnStatus . . . . .	190
8.134SRMv2__srmChangeSpaceForFilesResponse_ Struct Reference . . . . .	191
8.134.1 Detailed Description . . . . .	191
8.135SRMv2__srmCheckPermissionRequest Class Reference . . . . .	192
8.135.1 Detailed Description . . . . .	192
8.135.2 Field Documentation . . . . .	192
8.135.2.1 arrayOfURLs . . . . .	192
8.135.2.2 authorizationID . . . . .	192
8.135.2.3 storageSystemInfo . . . . .	192
8.136SRMv2__srmCheckPermissionResponse Class Reference . . . . .	193
8.136.1 Detailed Description . . . . .	193
8.136.2 Field Documentation . . . . .	193
8.136.2.1 arrayOfPermissions . . . . .	193
8.136.2.2 returnStatus . . . . .	193
8.137SRMv2__srmCheckPermissionResponse_ Struct Reference . . . . .	194
8.137.1 Detailed Description . . . . .	194
8.138SRMv2__srmCopyRequest Class Reference . . . . .	195
8.138.1 Detailed Description . . . . .	195
8.138.2 Field Documentation . . . . .	195
8.138.2.1 arrayOfFileRequests . . . . .	195
8.138.2.2 authorizationID . . . . .	195
8.138.2.3 soap . . . . .	195
8.138.2.4 userRequestDescription . . . . .	196
8.139SRMv2__srmCopyResponse Class Reference . . . . .	197
8.139.1 Detailed Description . . . . .	197
8.139.2 Field Documentation . . . . .	197
8.139.2.1 arrayOfFileStatuses . . . . .	197

8.139.2.2 remainingTotalRequestTime . . . . .	197
8.139.2.3 requestToken . . . . .	197
8.139.2.4 returnStatus . . . . .	197
8.140SRMv2__srmCopyResponse_ Struct Reference . . . . .	198
8.140.1 Detailed Description . . . . .	198
8.141SRMv2__srmExtendFileLifeTimeInSpaceRequest Class Reference . . . . .	199
8.141.1 Detailed Description . . . . .	199
8.141.2 Field Documentation . . . . .	199
8.141.2.1 arrayOfSURLs . . . . .	199
8.141.2.2 authorizationID . . . . .	199
8.141.2.3 newLifeTime . . . . .	199
8.141.2.4 spaceToken . . . . .	199
8.142SRMv2__srmExtendFileLifeTimeInSpaceResponse Class Reference . . . . .	200
8.142.1 Detailed Description . . . . .	200
8.142.2 Field Documentation . . . . .	200
8.142.2.1 arrayOfFileStatuses . . . . .	200
8.142.2.2 returnStatus . . . . .	200
8.143SRMv2__srmExtendFileLifeTimeInSpaceResponse_ Struct Reference . . . . .	201
8.143.1 Detailed Description . . . . .	201
8.144SRMv2__srmExtendFileLifeTimeRequest Class Reference . . . . .	202
8.144.1 Detailed Description . . . . .	202
8.144.2 Field Documentation . . . . .	202
8.144.2.1 arrayOfSURLs . . . . .	202
8.144.2.2 authorizationID . . . . .	202
8.144.2.3 newFileLifeTime . . . . .	202
8.144.2.4 newPinLifeTime . . . . .	202
8.144.2.5 requestToken . . . . .	202
8.145SRMv2__srmExtendFileLifeTimeResponse Class Reference . . . . .	203
8.145.1 Detailed Description . . . . .	203
8.145.2 Field Documentation . . . . .	203
8.145.2.1 arrayOfFileStatuses . . . . .	203
8.145.2.2 returnStatus . . . . .	203
8.146SRMv2__srmExtendFileLifeTimeResponse_ Struct Reference . . . . .	204
8.146.1 Detailed Description . . . . .	204
8.147SRMv2__srmGetPermissionRequest Class Reference . . . . .	205
8.147.1 Detailed Description . . . . .	205

8.147.2 Field Documentation . . . . .	205
8.147.2.1 arrayOfSURLs . . . . .	205
8.147.2.2 authorizationID . . . . .	205
8.147.2.3 storageSystemInfo . . . . .	205
8.148SRMv2__srmGetPermissionResponse Class Reference . . . . .	206
8.148.1 Detailed Description . . . . .	206
8.148.2 Field Documentation . . . . .	206
8.148.2.1 arrayOfPermissionReturns . . . . .	206
8.148.2.2 returnStatus . . . . .	206
8.149SRMv2__srmGetPermissionResponse_ Struct Reference . . . . .	207
8.149.1 Detailed Description . . . . .	207
8.150SRMv2__srmGetRequestSummaryRequest Class Reference . . . . .	208
8.150.1 Detailed Description . . . . .	208
8.150.2 Field Documentation . . . . .	208
8.150.2.1 arrayOfRequestTokens . . . . .	208
8.150.2.2 authorizationID . . . . .	208
8.151SRMv2__srmGetRequestSummaryResponse Class Reference . . . . .	209
8.151.1 Detailed Description . . . . .	209
8.151.2 Field Documentation . . . . .	209
8.151.2.1 arrayOfRequestSummaries . . . . .	209
8.151.2.2 returnStatus . . . . .	209
8.152SRMv2__srmGetRequestSummaryResponse_ Struct Reference . . . . .	210
8.152.1 Detailed Description . . . . .	210
8.153SRMv2__srmGetRequestTokensRequest Class Reference . . . . .	211
8.153.1 Detailed Description . . . . .	211
8.153.2 Field Documentation . . . . .	211
8.153.2.1 authorizationID . . . . .	211
8.153.2.2 userRequestDescription . . . . .	211
8.154SRMv2__srmGetRequestTokensResponse Class Reference . . . . .	212
8.154.1 Detailed Description . . . . .	212
8.154.2 Field Documentation . . . . .	212
8.154.2.1 arrayOfRequestTokens . . . . .	212
8.154.2.2 returnStatus . . . . .	212
8.155SRMv2__srmGetRequestTokensResponse_ Struct Reference . . . . .	213
8.155.1 Detailed Description . . . . .	213
8.156SRMv2__srmGetSpaceMetaDataRequest Class Reference . . . . .	214

8.156.1 Detailed Description . . . . .	214
8.156.2 Field Documentation . . . . .	214
8.156.2.1 arrayOfSpaceTokens . . . . .	214
8.156.2.2 authorizationID . . . . .	214
8.157SRMv2__srmGetSpaceMetaDataResponse Class Reference . . . . .	215
8.157.1 Detailed Description . . . . .	215
8.157.2 Field Documentation . . . . .	215
8.157.2.1 arrayOfSpaceDetails . . . . .	215
8.157.2.2 returnStatus . . . . .	215
8.158SRMv2__srmGetSpaceMetaDataResponse_ Struct Reference . . . . .	216
8.158.1 Detailed Description . . . . .	216
8.159SRMv2__srmGetSpaceTokensRequest Class Reference . . . . .	217
8.159.1 Detailed Description . . . . .	217
8.159.2 Field Documentation . . . . .	217
8.159.2.1 authorizationID . . . . .	217
8.159.2.2 userSpaceTokenDescription . . . . .	217
8.160SRMv2__srmGetSpaceTokensResponse Class Reference . . . . .	218
8.160.1 Detailed Description . . . . .	218
8.160.2 Field Documentation . . . . .	218
8.160.2.1 arrayOfSpaceTokens . . . . .	218
8.160.2.2 returnStatus . . . . .	218
8.161SRMv2__srmGetSpaceTokensResponse_ Struct Reference . . . . .	219
8.161.1 Detailed Description . . . . .	219
8.162SRMv2__srmGetTransferProtocolsRequest Class Reference . . . . .	220
8.162.1 Detailed Description . . . . .	220
8.162.2 Field Documentation . . . . .	220
8.162.2.1 authorizationID . . . . .	220
8.163SRMv2__srmGetTransferProtocolsResponse Class Reference . . . . .	221
8.163.1 Detailed Description . . . . .	221
8.163.2 Field Documentation . . . . .	221
8.163.2.1 protocolInfo . . . . .	221
8.163.2.2 returnStatus . . . . .	221
8.164SRMv2__srmGetTransferProtocolsResponse_ Struct Reference . . . . .	222
8.164.1 Detailed Description . . . . .	222
8.165SRMv2__srmLsRequest Class Reference . . . . .	223
8.165.1 Detailed Description . . . . .	223

8.165.2 Field Documentation . . . . .	223
8.165.2.1 arrayOfURLs . . . . .	223
8.165.2.2 authorizationID . . . . .	223
8.165.2.3 soap . . . . .	223
8.165.2.4 storageSystemInfo . . . . .	223
8.166SRMv2__srmLsResponse Class Reference . . . . .	224
8.166.1 Detailed Description . . . . .	224
8.166.2 Field Documentation . . . . .	224
8.166.2.1 details . . . . .	224
8.166.2.2 requestToken . . . . .	224
8.166.2.3 returnStatus . . . . .	224
8.167SRMv2__srmLsResponse_ Struct Reference . . . . .	225
8.167.1 Detailed Description . . . . .	225
8.168SRMv2__srmMkdirRequest Class Reference . . . . .	226
8.168.1 Detailed Description . . . . .	226
8.168.2 Field Documentation . . . . .	226
8.168.2.1 authorizationID . . . . .	226
8.168.2.2 storageSystemInfo . . . . .	226
8.168.2.3 URL . . . . .	226
8.169SRMv2__srmMkdirResponse Class Reference . . . . .	227
8.169.1 Detailed Description . . . . .	227
8.169.2 Field Documentation . . . . .	227
8.169.2.1 returnStatus . . . . .	227
8.170SRMv2__srmMkdirResponse_ Struct Reference . . . . .	228
8.170.1 Detailed Description . . . . .	228
8.171SRMv2__srmMvRequest Class Reference . . . . .	229
8.171.1 Detailed Description . . . . .	229
8.171.2 Field Documentation . . . . .	229
8.171.2.1 authorizationID . . . . .	229
8.171.2.2 fromURL . . . . .	229
8.171.2.3 storageSystemInfo . . . . .	229
8.171.2.4 toURL . . . . .	229
8.172SRMv2__srmMvResponse Class Reference . . . . .	230
8.172.1 Detailed Description . . . . .	230
8.172.2 Field Documentation . . . . .	230
8.172.2.1 returnStatus . . . . .	230

8.173SRMv2__srmMvResponse_ Struct Reference . . . . .	231
8.173.1 Detailed Description . . . . .	231
8.174SRMv2__srmPingRequest Class Reference . . . . .	232
8.174.1 Detailed Description . . . . .	232
8.174.2 Field Documentation . . . . .	232
8.174.2.1 authorizationID . . . . .	232
8.175SRMv2__srmPingResponse Class Reference . . . . .	233
8.175.1 Detailed Description . . . . .	233
8.175.2 Field Documentation . . . . .	233
8.175.2.1 otherInfo . . . . .	233
8.175.2.2 versionInfo . . . . .	233
8.176SRMv2__srmPingResponse_ Struct Reference . . . . .	234
8.176.1 Detailed Description . . . . .	234
8.177SRMv2__srmPrepareToGetRequest Class Reference . . . . .	235
8.177.1 Detailed Description . . . . .	235
8.177.2 Field Documentation . . . . .	235
8.177.2.1 arrayOfFileRequests . . . . .	235
8.177.2.2 authorizationID . . . . .	235
8.177.2.3 soap . . . . .	235
8.177.2.4 storageSystemInfo . . . . .	236
8.177.2.5 userRequestDescription . . . . .	236
8.178SRMv2__srmPrepareToGetResponse Class Reference . . . . .	237
8.178.1 Detailed Description . . . . .	237
8.178.2 Field Documentation . . . . .	237
8.178.2.1 arrayOfFileStatuses . . . . .	237
8.178.2.2 remainingTotalRequestTime . . . . .	237
8.178.2.3 requestToken . . . . .	237
8.178.2.4 returnStatus . . . . .	237
8.179SRMv2__srmPrepareToGetResponse_ Struct Reference . . . . .	238
8.179.1 Detailed Description . . . . .	238
8.180SRMv2__srmPrepareToPutRequest Class Reference . . . . .	239
8.180.1 Detailed Description . . . . .	239
8.180.2 Field Documentation . . . . .	239
8.180.2.1 arrayOfFileRequests . . . . .	239
8.180.2.2 authorizationID . . . . .	239
8.180.2.3 soap . . . . .	239

8.180.2.4 userRequestDescription . . . . .	240
8.181SRMv2__srmPrepareToPutResponse Class Reference . . . . .	241
8.181.1 Detailed Description . . . . .	241
8.181.2 Field Documentation . . . . .	241
8.181.2.1 arrayOfFileStatuses . . . . .	241
8.181.2.2 remainingTotalRequestTime . . . . .	241
8.181.2.3 requestToken . . . . .	241
8.181.2.4 returnStatus . . . . .	241
8.182SRMv2__srmPrepareToPutResponse_ Struct Reference . . . . .	242
8.182.1 Detailed Description . . . . .	242
8.183SRMv2__srmPurgeFromSpaceRequest Class Reference . . . . .	243
8.183.1 Detailed Description . . . . .	243
8.183.2 Field Documentation . . . . .	243
8.183.2.1 arrayOfURLs . . . . .	243
8.183.2.2 authorizationID . . . . .	243
8.183.2.3 spaceToken . . . . .	243
8.183.2.4 storageSystemInfo . . . . .	243
8.184SRMv2__srmPurgeFromSpaceResponse Class Reference . . . . .	244
8.184.1 Detailed Description . . . . .	244
8.184.2 Field Documentation . . . . .	244
8.184.2.1 arrayOfFileStatuses . . . . .	244
8.184.2.2 returnStatus . . . . .	244
8.185SRMv2__srmPurgeFromSpaceResponse_ Struct Reference . . . . .	245
8.185.1 Detailed Description . . . . .	245
8.186SRMv2__srmPutDoneRequest Class Reference . . . . .	246
8.186.1 Detailed Description . . . . .	246
8.186.2 Field Documentation . . . . .	246
8.186.2.1 arrayOfURLs . . . . .	246
8.186.2.2 authorizationID . . . . .	246
8.186.2.3 requestToken . . . . .	246
8.187SRMv2__srmPutDoneResponse Class Reference . . . . .	247
8.187.1 Detailed Description . . . . .	247
8.187.2 Field Documentation . . . . .	247
8.187.2.1 arrayOfFileStatuses . . . . .	247
8.187.2.2 returnStatus . . . . .	247
8.188SRMv2__srmPutDoneResponse_ Struct Reference . . . . .	248



8.188.1 Detailed Description . . . . .	248
8.189SRMv2__srmReleaseFilesRequest Class Reference . . . . .	249
8.189.1 Detailed Description . . . . .	249
8.189.2 Field Documentation . . . . .	249
8.189.2.1 arrayOfSURLs . . . . .	249
8.189.2.2 authorizationID . . . . .	249
8.189.2.3 doRemove . . . . .	249
8.189.2.4 requestToken . . . . .	249
8.190SRMv2__srmReleaseFilesResponse Class Reference . . . . .	250
8.190.1 Detailed Description . . . . .	250
8.190.2 Field Documentation . . . . .	250
8.190.2.1 arrayOfFileStatuses . . . . .	250
8.190.2.2 returnStatus . . . . .	250
8.191SRMv2__srmReleaseFilesResponse_ Struct Reference . . . . .	251
8.191.1 Detailed Description . . . . .	251
8.192SRMv2__srmReleaseSpaceRequest Class Reference . . . . .	252
8.192.1 Detailed Description . . . . .	252
8.192.2 Field Documentation . . . . .	252
8.192.2.1 authorizationID . . . . .	252
8.192.2.2 forceFileRelease . . . . .	252
8.192.2.3 spaceToken . . . . .	252
8.192.2.4 storageSystemInfo . . . . .	252
8.193SRMv2__srmReleaseSpaceResponse Class Reference . . . . .	253
8.193.1 Detailed Description . . . . .	253
8.193.2 Field Documentation . . . . .	253
8.193.2.1 returnStatus . . . . .	253
8.194SRMv2__srmReleaseSpaceResponse_ Struct Reference . . . . .	254
8.194.1 Detailed Description . . . . .	254
8.195SRMv2__srmReserveSpaceRequest Class Reference . . . . .	255
8.195.1 Detailed Description . . . . .	255
8.195.2 Field Documentation . . . . .	255
8.195.2.1 arrayOfExpectedFileSizes . . . . .	255
8.195.2.2 authorizationID . . . . .	255
8.195.2.3 desiredLifetimeOfReservedSpace . . . . .	255
8.195.2.4 desiredSizeOfGuaranteedSpace . . . . .	255
8.195.2.5 desiredSizeOfTotalSpace . . . . .	255

8.195.2.6 retentionPolicyInfo . . . . .	256
8.195.2.7 storageSystemInfo . . . . .	256
8.195.2.8 transferParameters . . . . .	256
8.195.2.9 userSpaceTokenDescription . . . . .	256
8.196SRMv2__srmReserveSpaceResponse Class Reference . . . . .	257
8.196.1 Detailed Description . . . . .	257
8.196.2 Field Documentation . . . . .	257
8.196.2.1 estimatedProcessingTime . . . . .	257
8.196.2.2 lifetimeOfReservedSpace . . . . .	257
8.196.2.3 requestToken . . . . .	257
8.196.2.4 retentionPolicyInfo . . . . .	257
8.196.2.5 returnStatus . . . . .	257
8.196.2.6 sizeOfGuaranteedReservedSpace . . . . .	258
8.196.2.7 sizeOfTotalReservedSpace . . . . .	258
8.196.2.8 spaceToken . . . . .	258
8.197SRMv2__srmReserveSpaceResponse_ Struct Reference . . . . .	259
8.197.1 Detailed Description . . . . .	259
8.198SRMv2__srmResumeRequestRequest Class Reference . . . . .	260
8.198.1 Detailed Description . . . . .	260
8.198.2 Field Documentation . . . . .	260
8.198.2.1 authorizationID . . . . .	260
8.198.2.2 requestToken . . . . .	260
8.199SRMv2__srmResumeRequestResponse Class Reference . . . . .	261
8.199.1 Detailed Description . . . . .	261
8.199.2 Field Documentation . . . . .	261
8.199.2.1 returnStatus . . . . .	261
8.200SRMv2__srmResumeRequestResponse_ Struct Reference . . . . .	262
8.200.1 Detailed Description . . . . .	262
8.201SRMv2__srmRmdirRequest Class Reference . . . . .	263
8.201.1 Detailed Description . . . . .	263
8.201.2 Field Documentation . . . . .	263
8.201.2.1 authorizationID . . . . .	263
8.201.2.2 recursive . . . . .	263
8.201.2.3 storageSystemInfo . . . . .	263
8.201.2.4 SURL . . . . .	263
8.202SRMv2__srmRmdirResponse Class Reference . . . . .	264

8.202.1 Detailed Description . . . . .	264
8.202.2 Field Documentation . . . . .	264
8.202.2.1 returnStatus . . . . .	264
8.203SRMv2__srmRmdirResponse_ Struct Reference . . . . .	265
8.203.1 Detailed Description . . . . .	265
8.204SRMv2__srmRmRequest Class Reference . . . . .	266
8.204.1 Detailed Description . . . . .	266
8.204.2 Field Documentation . . . . .	266
8.204.2.1 arrayOfSURLs . . . . .	266
8.204.2.2 authorizationID . . . . .	266
8.204.2.3 storageSystemInfo . . . . .	266
8.205SRMv2__srmRmResponse Class Reference . . . . .	267
8.205.1 Detailed Description . . . . .	267
8.205.2 Field Documentation . . . . .	267
8.205.2.1 arrayOfFileStatuses . . . . .	267
8.205.2.2 returnStatus . . . . .	267
8.206SRMv2__srmRmResponse_ Struct Reference . . . . .	268
8.206.1 Detailed Description . . . . .	268
8.207SRMv2__srmSetPermissionRequest Class Reference . . . . .	269
8.207.1 Detailed Description . . . . .	269
8.207.2 Field Documentation . . . . .	269
8.207.2.1 authorizationID . . . . .	269
8.207.2.2 permissionType . . . . .	269
8.207.2.3 soap . . . . .	269
8.207.2.4 SURL . . . . .	269
8.208SRMv2__srmSetPermissionResponse Class Reference . . . . .	271
8.208.1 Detailed Description . . . . .	271
8.208.2 Field Documentation . . . . .	271
8.208.2.1 returnStatus . . . . .	271
8.209SRMv2__srmSetPermissionResponse_ Struct Reference . . . . .	272
8.209.1 Detailed Description . . . . .	272
8.210SRMv2__srmStatusOfBringOnlineRequestRequest Class Reference . . . . .	273
8.210.1 Detailed Description . . . . .	273
8.210.2 Field Documentation . . . . .	273
8.210.2.1 arrayOfSourceSURLs . . . . .	273
8.210.2.2 authorizationID . . . . .	273

8.210.2.3 requestToken . . . . .	273
8.211SRMv2__srmStatusOfBringOnlineRequestResponse Class Reference . . . . .	274
8.211.1 Detailed Description . . . . .	274
8.211.2 Field Documentation . . . . .	274
8.211.2.1 arrayOfFileStatuses . . . . .	274
8.211.2.2 remainingDeferredStartTime . . . . .	274
8.211.2.3 remainingTotalRequestTime . . . . .	274
8.211.2.4 returnStatus . . . . .	274
8.212SRMv2__srmStatusOfBringOnlineRequestResponse_ Struct Reference . . . . .	275
8.212.1 Detailed Description . . . . .	275
8.213SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest Class Reference . . . . .	276
8.213.1 Detailed Description . . . . .	276
8.213.2 Field Documentation . . . . .	276
8.213.2.1 authorizationID . . . . .	276
8.213.2.2 requestToken . . . . .	276
8.214SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse Class Reference . . . . .	277
8.214.1 Detailed Description . . . . .	277
8.214.2 Field Documentation . . . . .	277
8.214.2.1 arrayOfFileStatuses . . . . .	277
8.214.2.2 estimatedProcessingTime . . . . .	277
8.214.2.3 returnStatus . . . . .	277
8.215SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_ Struct Reference . . . . .	278
8.215.1 Detailed Description . . . . .	278
8.216SRMv2__srmStatusOfCopyRequestRequest Class Reference . . . . .	279
8.216.1 Detailed Description . . . . .	279
8.216.2 Field Documentation . . . . .	279
8.216.2.1 arrayOfSourceURLs . . . . .	279
8.216.2.2 arrayOfTargetURLs . . . . .	279
8.216.2.3 authorizationID . . . . .	279
8.216.2.4 requestToken . . . . .	279
8.217SRMv2__srmStatusOfCopyRequestResponse Class Reference . . . . .	280
8.217.1 Detailed Description . . . . .	280
8.217.2 Field Documentation . . . . .	280
8.217.2.1 arrayOfFileStatuses . . . . .	280
8.217.2.2 remainingTotalRequestTime . . . . .	280
8.217.2.3 returnStatus . . . . .	280

8.218SRMv2__srmStatusOfCopyRequestResponse_ Struct Reference . . . . .	281
8.218.1 Detailed Description . . . . .	281
8.219SRMv2__srmStatusOfGetRequestRequest Class Reference . . . . .	282
8.219.1 Detailed Description . . . . .	282
8.219.2 Field Documentation . . . . .	282
8.219.2.1 arrayOfSourceURLs . . . . .	282
8.219.2.2 authorizationID . . . . .	282
8.219.2.3 requestToken . . . . .	282
8.220SRMv2__srmStatusOfGetRequestResponse Class Reference . . . . .	283
8.220.1 Detailed Description . . . . .	283
8.220.2 Field Documentation . . . . .	283
8.220.2.1 arrayOfFileStatuses . . . . .	283
8.220.2.2 remainingTotalRequestTime . . . . .	283
8.220.2.3 returnStatus . . . . .	283
8.221SRMv2__srmStatusOfGetRequestResponse_ Struct Reference . . . . .	284
8.221.1 Detailed Description . . . . .	284
8.222SRMv2__srmStatusOfLsRequestRequest Class Reference . . . . .	285
8.222.1 Detailed Description . . . . .	285
8.222.2 Field Documentation . . . . .	285
8.222.2.1 authorizationID . . . . .	285
8.222.2.2 count . . . . .	285
8.222.2.3 offset . . . . .	285
8.222.2.4 requestToken . . . . .	285
8.223SRMv2__srmStatusOfLsRequestResponse Class Reference . . . . .	286
8.223.1 Detailed Description . . . . .	286
8.223.2 Field Documentation . . . . .	286
8.223.2.1 details . . . . .	286
8.223.2.2 returnStatus . . . . .	286
8.224SRMv2__srmStatusOfLsRequestResponse_ Struct Reference . . . . .	287
8.224.1 Detailed Description . . . . .	287
8.225SRMv2__srmStatusOfPutRequestRequest Class Reference . . . . .	288
8.225.1 Detailed Description . . . . .	288
8.225.2 Field Documentation . . . . .	288
8.225.2.1 arrayOfTargetURLs . . . . .	288
8.225.2.2 authorizationID . . . . .	288
8.225.2.3 requestToken . . . . .	288

8.226SRMv2__srmStatusOfPutRequestResponse Class Reference . . . . .	289
8.226.1 Detailed Description . . . . .	289
8.226.2 Field Documentation . . . . .	289
8.226.2.1 arrayOfFileStatuses . . . . .	289
8.226.2.2 remainingTotalRequestTime . . . . .	289
8.226.2.3 returnStatus . . . . .	289
8.227SRMv2__srmStatusOfPutRequestResponse_ Struct Reference . . . . .	290
8.227.1 Detailed Description . . . . .	290
8.228SRMv2__srmStatusOfReserveSpaceRequestRequest Class Reference . . . . .	291
8.228.1 Detailed Description . . . . .	291
8.228.2 Field Documentation . . . . .	291
8.228.2.1 authorizationID . . . . .	291
8.228.2.2 requestToken . . . . .	291
8.229SRMv2__srmStatusOfReserveSpaceRequestResponse Class Reference . . . . .	292
8.229.1 Detailed Description . . . . .	292
8.229.2 Field Documentation . . . . .	292
8.229.2.1 estimatedProcessingTime . . . . .	292
8.229.2.2 lifetimeOfReservedSpace . . . . .	292
8.229.2.3 retentionPolicyInfo . . . . .	292
8.229.2.4 returnStatus . . . . .	292
8.229.2.5 sizeOfGuaranteedReservedSpace . . . . .	293
8.229.2.6 sizeOfTotalReservedSpace . . . . .	293
8.229.2.7 spaceToken . . . . .	293
8.230SRMv2__srmStatusOfReserveSpaceRequestResponse_ Struct Reference . . . . .	294
8.230.1 Detailed Description . . . . .	294
8.231SRMv2__srmStatusOfUpdateSpaceRequestRequest Class Reference . . . . .	295
8.231.1 Detailed Description . . . . .	295
8.231.2 Field Documentation . . . . .	295
8.231.2.1 authorizationID . . . . .	295
8.231.2.2 requestToken . . . . .	295
8.232SRMv2__srmStatusOfUpdateSpaceRequestResponse Class Reference . . . . .	296
8.232.1 Detailed Description . . . . .	296
8.232.2 Field Documentation . . . . .	296
8.232.2.1 lifetimeGranted . . . . .	296
8.232.2.2 returnStatus . . . . .	296
8.232.2.3 sizeOfGuaranteedSpace . . . . .	296

8.232.2.4	sizeofTotalSpace	296
8.233SRMv2__srmStatusOfUpdateSpaceRequestResponse_	Struct Reference	297
8.233.1	Detailed Description	297
8.234SRMv2__srmSuspendRequestRequest	Class Reference	298
8.234.1	Detailed Description	298
8.234.2	Field Documentation	298
8.234.2.1	authorizationID	298
8.234.2.2	requestToken	298
8.235SRMv2__srmSuspendRequestResponse	Class Reference	299
8.235.1	Detailed Description	299
8.235.2	Field Documentation	299
8.235.2.1	returnStatus	299
8.236SRMv2__srmSuspendRequestResponse_	Struct Reference	300
8.236.1	Detailed Description	300
8.237SRMv2__srmUpdateSpaceRequest	Class Reference	301
8.237.1	Detailed Description	301
8.237.2	Field Documentation	301
8.237.2.1	authorizationID	301
8.237.2.2	newLifeTime	301
8.237.2.3	newSizeOfGuaranteedSpaceDesired	301
8.237.2.4	newSizeOfTotalSpaceDesired	301
8.237.2.5	spaceToken	301
8.237.2.6	storageSystemInfo	301
8.238SRMv2__srmUpdateSpaceResponse	Class Reference	303
8.238.1	Detailed Description	303
8.238.2	Field Documentation	303
8.238.2.1	lifetimeGranted	303
8.238.2.2	requestToken	303
8.238.2.3	returnStatus	303
8.238.2.4	sizeofGuaranteedSpace	303
8.238.2.5	sizeofTotalSpace	303
8.239SRMv2__srmUpdateSpaceResponse_	Struct Reference	304
8.239.1	Detailed Description	304
8.240SRMv2__TBringOnlineRequestFileStatus	Class Reference	305
8.240.1	Detailed Description	305
8.240.2	Field Documentation	305

8.240.2.1 estimatedWaitTime . . . . .	305
8.240.2.2 fileSize . . . . .	305
8.240.2.3 remainingPinTime . . . . .	305
8.240.2.4 sourceSURL . . . . .	305
8.240.2.5 status . . . . .	305
8.241SRMv2__TCopyFileRequest Class Reference . . . . .	306
8.241.1 Detailed Description . . . . .	306
8.241.2 Field Documentation . . . . .	306
8.241.2.1 dirOption . . . . .	306
8.241.2.2 sourceSURL . . . . .	306
8.241.2.3 targetSURL . . . . .	306
8.242SRMv2__TCopyRequestFileStatus Class Reference . . . . .	307
8.242.1 Detailed Description . . . . .	307
8.242.2 Field Documentation . . . . .	307
8.242.2.1 estimatedWaitTime . . . . .	307
8.242.2.2 fileSize . . . . .	307
8.242.2.3 remainingFileLifetime . . . . .	307
8.242.2.4 sourceSURL . . . . .	307
8.242.2.5 status . . . . .	307
8.242.2.6 targetSURL . . . . .	307
8.243SRMv2__TDirOption Class Reference . . . . .	309
8.243.1 Detailed Description . . . . .	309
8.243.2 Field Documentation . . . . .	309
8.243.2.1 allLevelRecursive . . . . .	309
8.243.2.2 isSourceADirectory . . . . .	309
8.243.2.3 numOfLevels . . . . .	309
8.244SRMv2__TExtraInfo Class Reference . . . . .	310
8.244.1 Detailed Description . . . . .	310
8.244.2 Field Documentation . . . . .	310
8.244.2.1 key . . . . .	310
8.244.2.2 value . . . . .	310
8.245SRMv2__TGetFileRequest Class Reference . . . . .	311
8.245.1 Detailed Description . . . . .	311
8.245.2 Field Documentation . . . . .	311
8.245.2.1 dirOption . . . . .	311
8.245.2.2 sourceSURL . . . . .	311



8.246SRMv2__TGetRequestFileStatus Class Reference . . . . .	312
8.246.1 Detailed Description . . . . .	312
8.246.2 Field Documentation . . . . .	312
8.246.2.1 estimatedWaitTime . . . . .	312
8.246.2.2 fileSize . . . . .	312
8.246.2.3 remainingPinTime . . . . .	312
8.246.2.4 sourceSURL . . . . .	312
8.246.2.5 status . . . . .	312
8.246.2.6 transferProtocolInfo . . . . .	312
8.246.2.7 transferURL . . . . .	313
8.247SRMv2__TGroupPermission Class Reference . . . . .	314
8.247.1 Detailed Description . . . . .	314
8.247.2 Field Documentation . . . . .	314
8.247.2.1 groupID . . . . .	314
8.247.2.2 mode . . . . .	314
8.248SRMv2__TMetaDataPathDetail Class Reference . . . . .	315
8.248.1 Detailed Description . . . . .	315
8.248.2 Field Documentation . . . . .	315
8.248.2.1 createdAtTime . . . . .	315
8.248.2.2 lastModificationTime . . . . .	315
8.248.2.3 path . . . . .	315
8.248.2.4 size . . . . .	315
8.248.2.5 soap . . . . .	316
8.248.2.6 status . . . . .	316
8.249SRMv2__TMetaDataSpace Class Reference . . . . .	317
8.249.1 Detailed Description . . . . .	317
8.249.2 Field Documentation . . . . .	317
8.249.2.1 guaranteedSize . . . . .	317
8.249.2.2 lifetimeAssigned . . . . .	317
8.249.2.3 lifetimeLeft . . . . .	317
8.249.2.4 owner . . . . .	317
8.249.2.5 retentionPolicyInfo . . . . .	317
8.249.2.6 spaceToken . . . . .	318
8.249.2.7 status . . . . .	318
8.249.2.8 totalSize . . . . .	318
8.249.2.9 unusedSize . . . . .	318

8.250SRMv2__TPermissionReturn Class Reference . . . . .	319
8.250.1 Detailed Description . . . . .	319
8.250.2 Field Documentation . . . . .	319
8.250.2.1 owner . . . . .	319
8.250.2.2 soap . . . . .	319
8.250.2.3 status . . . . .	319
8.250.2.4 surl . . . . .	319
8.251SRMv2__TPutFileRequest Class Reference . . . . .	320
8.251.1 Detailed Description . . . . .	320
8.251.2 Field Documentation . . . . .	320
8.251.2.1 expectedFileSize . . . . .	320
8.251.2.2 targetSURL . . . . .	320
8.252SRMv2__TPutRequestFileStatus Class Reference . . . . .	321
8.252.1 Detailed Description . . . . .	321
8.252.2 Field Documentation . . . . .	321
8.252.2.1 estimatedWaitTime . . . . .	321
8.252.2.2 fileSize . . . . .	321
8.252.2.3 remainingFileLifetime . . . . .	321
8.252.2.4 remainingPinLifetime . . . . .	321
8.252.2.5 status . . . . .	321
8.252.2.6 SURL . . . . .	321
8.252.2.7 transferProtocolInfo . . . . .	322
8.252.2.8 transferURL . . . . .	322
8.253SRMv2__TRequestSummary Class Reference . . . . .	323
8.253.1 Detailed Description . . . . .	323
8.253.2 Field Documentation . . . . .	323
8.253.2.1 requestToken . . . . .	323
8.253.2.2 soap . . . . .	323
8.253.2.3 status . . . . .	323
8.254SRMv2__TRequestTokenReturn Class Reference . . . . .	324
8.254.1 Detailed Description . . . . .	324
8.254.2 Field Documentation . . . . .	324
8.254.2.1 createdAtTime . . . . .	324
8.254.2.2 requestToken . . . . .	324
8.255SRMv2__TRetentionPolicyInfo Class Reference . . . . .	325
8.255.1 Detailed Description . . . . .	325

8.255.2 Field Documentation . . . . .	325
8.255.2.1 retentionPolicy . . . . .	325
8.255.2.2 soap . . . . .	325
8.256SRMv2__TReturnStatus Class Reference . . . . .	326
8.256.1 Detailed Description . . . . .	326
8.256.2 Field Documentation . . . . .	326
8.256.2.1 explanation . . . . .	326
8.256.2.2 statusCode . . . . .	326
8.257SRMv2__TSupportedTransferProtocol Class Reference . . . . .	327
8.257.1 Detailed Description . . . . .	327
8.257.2 Field Documentation . . . . .	327
8.257.2.1 attributes . . . . .	327
8.257.2.2 transferProtocol . . . . .	327
8.258SRMv2__TSURLLifetimeReturnStatus Class Reference . . . . .	328
8.258.1 Detailed Description . . . . .	328
8.258.2 Field Documentation . . . . .	328
8.258.2.1 fileLifetime . . . . .	328
8.258.2.2 pinLifetime . . . . .	328
8.258.2.3 status . . . . .	328
8.258.2.4 surl . . . . .	328
8.259SRMv2__TSURLPermissionReturn Class Reference . . . . .	329
8.259.1 Detailed Description . . . . .	329
8.259.2 Field Documentation . . . . .	329
8.259.2.1 soap . . . . .	329
8.259.2.2 status . . . . .	329
8.259.2.3 surl . . . . .	329
8.260SRMv2__TSURLReturnStatus Class Reference . . . . .	330
8.260.1 Detailed Description . . . . .	330
8.260.2 Field Documentation . . . . .	330
8.260.2.1 status . . . . .	330
8.260.2.2 surl . . . . .	330
8.261SRMv2__TTransferParameters Class Reference . . . . .	331
8.261.1 Detailed Description . . . . .	331
8.261.2 Field Documentation . . . . .	331
8.261.2.1 soap . . . . .	331
8.262SRMv2__TUserPermission Class Reference . . . . .	332

8.262.1 Detailed Description . . . . .	332
8.262.2 Field Documentation . . . . .	332
8.262.2.1 mode . . . . .	332
8.262.2.2 userID . . . . .	332
8.263ArcSec::UsernameTokenSH Class Reference . . . . .	333
8.263.1 Detailed Description . . . . .	333
8.264ArcSec::X509TokenSH Class Reference . . . . .	334
8.264.1 Detailed Description . . . . .	334
8.265ArcSec::XACMLAlgFactory Class Reference . . . . .	335
8.265.1 Detailed Description . . . . .	335
8.265.2 Member Function Documentation . . . . .	335
8.265.2.1 createAlg . . . . .	335
8.266ArcSec::XACMLApply Class Reference . . . . .	336
8.267ArcSec::XACMLAttributeFactory Class Reference . . . . .	337
8.267.1 Detailed Description . . . . .	337
8.267.2 Member Function Documentation . . . . .	337
8.267.2.1 createValue . . . . .	337
8.268ArcSec::XACMLAttributeProxy< TheAttribute > Class Template Reference . . . . .	338
8.268.1 Detailed Description . . . . .	338
8.269ArcSec::XACMLCondition Class Reference . . . . .	339
8.269.1 Detailed Description . . . . .	339
8.269.2 Constructor & Destructor Documentation . . . . .	339
8.269.2.1 XACMLCondition . . . . .	339
8.270ArcSec::XACMLEvaluationCtx Class Reference . . . . .	340
8.270.1 Detailed Description . . . . .	340
8.270.2 Constructor & Destructor Documentation . . . . .	340
8.270.2.1 XACMLEvaluationCtx . . . . .	340
8.271ArcSec::XACMLEvaluator Class Reference . . . . .	341
8.271.1 Detailed Description . . . . .	341
8.271.2 Member Function Documentation . . . . .	341
8.271.2.1 evaluate . . . . .	341
8.272ArcSec::XACMLFnFactory Class Reference . . . . .	342
8.272.1 Detailed Description . . . . .	342
8.272.2 Member Function Documentation . . . . .	342
8.272.2.1 createFn . . . . .	342
8.273ArcSec::XACMLPDP Class Reference . . . . .	343

8.273.1 Detailed Description . . . . .	343
8.274ArcSec::XACMLPolicy Class Reference . . . . .	344
8.274.1 Detailed Description . . . . .	344
8.274.2 Constructor & Destructor Documentation . . . . .	344
8.274.2.1 XACMLPolicy . . . . .	344
8.274.2.2 XACMLPolicy . . . . .	344
8.274.2.3 XACMLPolicy . . . . .	344
8.274.3 Member Function Documentation . . . . .	344
8.274.3.1 make_policy . . . . .	344
8.275ArcSec::XACMLRequest Class Reference . . . . .	345
8.275.1 Member Function Documentation . . . . .	345
8.275.1.1 getEvalName . . . . .	345
8.275.1.2 getName . . . . .	345
8.276ArcSec::XACMLRule Class Reference . . . . .	346
8.276.1 Detailed Description . . . . .	346
8.277ArcSec::XACMLTarget Class Reference . . . . .	347
8.277.1 Detailed Description . . . . .	347
8.277.2 Constructor & Destructor Documentation . . . . .	347
8.277.2.1 XACMLTarget . . . . .	347
8.278ArcSec::XACMLTargetMatch Class Reference . . . . .	348
8.279ArcSec::XACMLTargetMatchGroup Class Reference . . . . .	349
8.280ArcSec::XACMLTargetSection Class Reference . . . . .	350



# 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
- SRMv1Meth\_\_get
- SRMv1Meth\_\_copy
- SRMv1Meth\_\_ping
- SRMv1Meth\_\_pin
- SRMv1Meth\_\_unPin
- SRMv1Meth\_\_setFileStatus
- SRMv1Meth\_\_getRequestStatus
- SRMv1Meth\_\_getFileMetaData
- SRMv1Meth\_\_mkPermanent
- SRMv1Meth\_\_getEstGetTime
- SRMv1Meth\_\_getEstPutTime
- SRMv1Meth\_\_advisoryDelete
- SRMv1Meth\_\_getProtocols

## 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
- SRMv2\_\_srmStatusOfReserveSpaceRequest
- SRMv2\_\_srmReleaseSpace
- SRMv2\_\_srmUpdateSpace
- SRMv2\_\_srmStatusOfUpdateSpaceRequest
- SRMv2\_\_srmGetSpaceMetaData
- SRMv2\_\_srmChangeSpaceForFiles
- SRMv2\_\_srmStatusOfChangeSpaceForFilesRequest
- SRMv2\_\_srmExtendFileLifeTimeInSpace
- SRMv2\_\_srmPurgeFromSpace
- SRMv2\_\_srmGetSpaceTokens
- SRMv2\_\_srmSetPermission
- SRMv2\_\_srmCheckPermission
- SRMv2\_\_srmGetPermission
- SRMv2\_\_srmMkdir
- SRMv2\_\_srmRmdir
- SRMv2\_\_srmRm
- SRMv2\_\_srmLs
- SRMv2\_\_srmStatusOfLsRequest
- SRMv2\_\_srmMv
- SRMv2\_\_srmPrepareToGet
- SRMv2\_\_srmStatusOfGetRequest
- SRMv2\_\_srmBringOnline
- SRMv2\_\_srmStatusOfBringOnlineRequest
- SRMv2\_\_srmPrepareToPut
- SRMv2\_\_srmStatusOfPutRequest
- SRMv2\_\_srmCopy

- SRMv2\_\_srmStatusOfCopyRequest
- SRMv2\_\_srmReleaseFiles
- SRMv2\_\_srmPutDone
- SRMv2\_\_srmAbortRequest
- SRMv2\_\_srmAbortFiles
- SRMv2\_\_srmSuspendRequest
- SRMv2\_\_srmResumeRequest
- SRMv2\_\_srmGetRequestSummary
- SRMv2\_\_srmExtendFileLifeTime
- SRMv2\_\_srmGetRequestTokens
- SRMv2\_\_srmGetTransferProtocols
- SRMv2\_\_srmPing

### 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. 41), Parsing the specified Arc request format ) . . . . . 27





## Chapter 5

# Data Structure Index

### 5.1 Class Hierarchy

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

ArcSec::AllowPDP . . . . .	31
ArcSec::ArcAlgFactory . . . . .	32
ArcSec::ArcAttributeFactory . . . . .	33
ArcSec::ArcAttributeProxy< TheAttribute > . . . . .	34
ArcSec::ArcAuthZ . . . . .	35
ArcSec::ArcEvaluationCtx . . . . .	36
ArcSec::ArcEvaluator . . . . .	37
ArcSec::ArcFnFactory . . . . .	38
ArcSec::ArcPDP . . . . .	39
ArcSec::ArcPolicy . . . . .	40
ArcSec::ArcRequest . . . . .	41
ArcSec::ArcRequestItem . . . . .	42
ArcSec::ArcRequestTuple . . . . .	43
ArcSec::ArcRule . . . . .	44
ArrayOfboolean . . . . .	45
ArrayOfFileMetaData . . . . .	46
ArrayOflong . . . . .	47
ArrayOfRequestFileStatus . . . . .	48
ArrayOfstring . . . . .	49
ArcSec::AttributeDesignator . . . . .	50
ArcSec::AttributeSelector . . . . .	51
Arc::ConfigTlsmcc . . . . .	52
Arc::DataPointARC . . . . .	53
Arc::DataPointFile . . . . .	54
Arc::DataPointGridFTP . . . . .	55
Arc::DataPointHTTP . . . . .	56
Arc::DataPointLDAP . . . . .	57
Arc::DataPointLFC . . . . .	58
Arc::DataPointRLS . . . . .	59
Arc::DataPointSRM . . . . .	60
ArcSec::DelegationCollector . . . . .	61
ArcSec::DelegationMultiSecAttr . . . . .	62
ArcSec::DelegationPDP . . . . .	63

ArcSec::DelegationSecAttr . . . . .	64
ArcSec::DelegationSH . . . . .	65
ArcSec::DenyPDP . . . . .	66
ArcSec::GACLEvaluator . . . . .	67
ArcSec::GACLPDP . . . . .	68
ArcSec::GACLPolicy . . . . .	69
ArcSec::GACLRequest . . . . .	70
Arc::HTTPResponseHeader . . . . .	71
Arc::HTTPSClient . . . . .	72
Arc::HTTPSClientSOAP . . . . .	76
Arc::HTTPSClientConnector . . . . .	73
Arc::HTTPSClientConnectorGlobus . . . . .	74
Arc::HTTPSClientConnectorGSSAPI . . . . .	75
ISRM . . . . .	77
ISRMService . . . . .	78
Arc::LDAPQuery . . . . .	79
Arc::Lister . . . . .	80
Arc::MCC_GSI_Client . . . . .	81
Arc::MCC_GSI_Service . . . . .	82
Arc::MCC_HTTP . . . . .	83
Arc::MCC_HTTP_Client . . . . .	84
Arc::MCC_HTTP_Service . . . . .	85
Arc::MCC_SOAP . . . . .	86
Arc::MCC_SOAP_Client . . . . .	87
Arc::MCC_SOAP_Service . . . . .	88
Arc::MCC_TCP . . . . .	89
Arc::MCC_TCP_Client . . . . .	90
Arc::MCC_TCP_Service . . . . .	91
Arc::MCC_TLS . . . . .	92
Arc::MCC_TLS_Client . . . . .	93
Arc::MCC_TLS_Service . . . . .	94
Arc::PayloadGSISStream . . . . .	95
Arc::PayloadHTTP . . . . .	96
Arc::PayloadTCPSToken . . . . .	101
Arc::PayloadTLSSStream . . . . .	103
Arc::PayloadTLSTMCC . . . . .	102
ArcSec::PDPServletInvoker . . . . .	105
ArcSec::SAML2SSO_AssertionConsumerSH . . . . .	106
ArcSec::SAMLTokenSH . . . . .	107
ArcSec::SimpleListPDP . . . . .	108
SRMClient . . . . .	118
SRM1Client . . . . .	109
SRM22Client . . . . .	115
SRMClientRequest . . . . .	126
SRMFileInfo . . . . .	128
SRMFileMetaData . . . . .	129
SRMInfo . . . . .	130
SRMInvalidRequestException . . . . .	131
srmlSoapBinding . . . . .	132
srmlSoapBindingService . . . . .	135
SRMURL . . . . .	136

SRMv1Meth__advisoryDeleteResponse . . . . .	138
SRMv1Meth__copyResponse . . . . .	139
SRMv1Meth__getEstGetTimeResponse . . . . .	140
SRMv1Meth__getEstPutTimeResponse . . . . .	141
SRMv1Meth__getFileMetaDataResponse . . . . .	142
SRMv1Meth__getProtocolsResponse . . . . .	143
SRMv1Meth__getRequestStatusResponse . . . . .	144
SRMv1Meth__getResponse . . . . .	145
SRMv1Meth__mkPermanentResponse . . . . .	146
SRMv1Meth__pinResponse . . . . .	147
SRMv1Meth__putResponse . . . . .	148
SRMv1Meth__setFileStatusResponse . . . . .	149
SRMv1Meth__unPinResponse . . . . .	150
SRMv1Type__FileMetaData . . . . .	151
SRMv1Type__RequestFileStatus . . . . .	153
SRMv1Type__RequestStatus . . . . .	155
SRMv2__ArrayOfAnyURI . . . . .	157
SRMv2__ArrayOfString . . . . .	158
SRMv2__ArrayOfTBringOnlineRequestFileStatus . . . . .	159
SRMv2__ArrayOfTCopyFileRequest . . . . .	160
SRMv2__ArrayOfTCopyRequestFileStatus . . . . .	161
SRMv2__ArrayOfTExtraInfo . . . . .	162
SRMv2__ArrayOfTGetFileRequest . . . . .	163
SRMv2__ArrayOfTGetRequestFileStatus . . . . .	164
SRMv2__ArrayOfTGroupPermission . . . . .	165
SRMv2__ArrayOfTMetaDataPathDetail . . . . .	166
SRMv2__ArrayOfTMetaDataSpace . . . . .	167
SRMv2__ArrayOfTPermissionReturn . . . . .	168
SRMv2__ArrayOfTPutFileRequest . . . . .	169
SRMv2__ArrayOfTPutRequestFileStatus . . . . .	170
SRMv2__ArrayOfTRequestSummary . . . . .	171
SRMv2__ArrayOfTRequestTokenReturn . . . . .	172
SRMv2__ArrayOfTSupportedTransferProtocol . . . . .	173
SRMv2__ArrayOfTSURLLifetimeReturnStatus . . . . .	174
SRMv2__ArrayOfTSURLPermissionReturn . . . . .	175
SRMv2__ArrayOfTSURLReturnStatus . . . . .	176
SRMv2__ArrayOfTUserPermission . . . . .	177
SRMv2__ArrayOfUnsignedLong . . . . .	178
SRMv2__srmAbortFilesRequest . . . . .	179
SRMv2__srmAbortFilesResponse . . . . .	180
SRMv2__srmAbortFilesResponse_ . . . . .	181
SRMv2__srmAbortRequestRequest . . . . .	182
SRMv2__srmAbortRequestResponse . . . . .	183
SRMv2__srmAbortRequestResponse_ . . . . .	184
SRMv2__srmBringOnlineRequest . . . . .	185
SRMv2__srmBringOnlineResponse . . . . .	187
SRMv2__srmBringOnlineResponse_ . . . . .	188
SRMv2__srmChangeSpaceForFilesRequest . . . . .	189
SRMv2__srmChangeSpaceForFilesResponse . . . . .	190
SRMv2__srmChangeSpaceForFilesResponse_ . . . . .	191
SRMv2__srmCheckPermissionRequest . . . . .	192
SRMv2__srmCheckPermissionResponse . . . . .	193
SRMv2__srmCheckPermissionResponse_ . . . . .	194

SRMv2__srmCopyRequest . . . . .	195
SRMv2__srmCopyResponse . . . . .	197
SRMv2__srmCopyResponse_ . . . . .	198
SRMv2__srmExtendFileLifeTimeInSpaceRequest . . . . .	199
SRMv2__srmExtendFileLifeTimeInSpaceResponse . . . . .	200
SRMv2__srmExtendFileLifeTimeInSpaceResponse_ . . . . .	201
SRMv2__srmExtendFileLifeTimeRequest . . . . .	202
SRMv2__srmExtendFileLifeTimeResponse . . . . .	203
SRMv2__srmExtendFileLifeTimeResponse_ . . . . .	204
SRMv2__srmGetPermissionRequest . . . . .	205
SRMv2__srmGetPermissionResponse . . . . .	206
SRMv2__srmGetPermissionResponse_ . . . . .	207
SRMv2__srmGetRequestSummaryRequest . . . . .	208
SRMv2__srmGetRequestSummaryResponse . . . . .	209
SRMv2__srmGetRequestSummaryResponse_ . . . . .	210
SRMv2__srmGetRequestTokensRequest . . . . .	211
SRMv2__srmGetRequestTokensResponse . . . . .	212
SRMv2__srmGetRequestTokensResponse_ . . . . .	213
SRMv2__srmGetSpaceMetaDataRequest . . . . .	214
SRMv2__srmGetSpaceMetaDataResponse . . . . .	215
SRMv2__srmGetSpaceMetaDataResponse_ . . . . .	216
SRMv2__srmGetSpaceTokensRequest . . . . .	217
SRMv2__srmGetSpaceTokensResponse . . . . .	218
SRMv2__srmGetSpaceTokensResponse_ . . . . .	219
SRMv2__srmGetTransferProtocolsRequest . . . . .	220
SRMv2__srmGetTransferProtocolsResponse . . . . .	221
SRMv2__srmGetTransferProtocolsResponse_ . . . . .	222
SRMv2__srmLsRequest . . . . .	223
SRMv2__srmLsResponse . . . . .	224
SRMv2__srmLsResponse_ . . . . .	225
SRMv2__srmMkdirRequest . . . . .	226
SRMv2__srmMkdirResponse . . . . .	227
SRMv2__srmMkdirResponse_ . . . . .	228
SRMv2__srmMvRequest . . . . .	229
SRMv2__srmMvResponse . . . . .	230
SRMv2__srmMvResponse_ . . . . .	231
SRMv2__srmPingRequest . . . . .	232
SRMv2__srmPingResponse . . . . .	233
SRMv2__srmPingResponse_ . . . . .	234
SRMv2__srmPrepareToGetRequest . . . . .	235
SRMv2__srmPrepareToGetResponse . . . . .	237
SRMv2__srmPrepareToGetResponse_ . . . . .	238
SRMv2__srmPrepareToPutRequest . . . . .	239
SRMv2__srmPrepareToPutResponse . . . . .	241
SRMv2__srmPrepareToPutResponse_ . . . . .	242
SRMv2__srmPurgeFromSpaceRequest . . . . .	243
SRMv2__srmPurgeFromSpaceResponse . . . . .	244
SRMv2__srmPurgeFromSpaceResponse_ . . . . .	245
SRMv2__srmPutDoneRequest . . . . .	246
SRMv2__srmPutDoneResponse . . . . .	247
SRMv2__srmPutDoneResponse_ . . . . .	248
SRMv2__srmReleaseFilesRequest . . . . .	249
SRMv2__srmReleaseFilesResponse . . . . .	250
SRMv2__srmReleaseFilesResponse_ . . . . .	251

SRMv2__srmReleaseSpaceRequest . . . . .	252
SRMv2__srmReleaseSpaceResponse . . . . .	253
SRMv2__srmReleaseSpaceResponse_ . . . . .	254
SRMv2__srmReserveSpaceRequest . . . . .	255
SRMv2__srmReserveSpaceResponse . . . . .	257
SRMv2__srmReserveSpaceResponse_ . . . . .	259
SRMv2__srmResumeRequestRequest . . . . .	260
SRMv2__srmResumeRequestResponse . . . . .	261
SRMv2__srmResumeRequestResponse_ . . . . .	262
SRMv2__srmRmdirRequest . . . . .	263
SRMv2__srmRmdirResponse . . . . .	264
SRMv2__srmRmdirResponse_ . . . . .	265
SRMv2__srmRmRequest . . . . .	266
SRMv2__srmRmResponse . . . . .	267
SRMv2__srmRmResponse_ . . . . .	268
SRMv2__srmSetPermissionRequest . . . . .	269
SRMv2__srmSetPermissionResponse . . . . .	271
SRMv2__srmSetPermissionResponse_ . . . . .	272
SRMv2__srmStatusOfBringOnlineRequestRequest . . . . .	273
SRMv2__srmStatusOfBringOnlineRequestResponse . . . . .	274
SRMv2__srmStatusOfBringOnlineRequestResponse_ . . . . .	275
SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest . . . . .	276
SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse . . . . .	277
SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_ . . . . .	278
SRMv2__srmStatusOfCopyRequestRequest . . . . .	279
SRMv2__srmStatusOfCopyRequestResponse . . . . .	280
SRMv2__srmStatusOfCopyRequestResponse_ . . . . .	281
SRMv2__srmStatusOfGetRequestRequest . . . . .	282
SRMv2__srmStatusOfGetRequestResponse . . . . .	283
SRMv2__srmStatusOfGetRequestResponse_ . . . . .	284
SRMv2__srmStatusOfLsRequestRequest . . . . .	285
SRMv2__srmStatusOfLsRequestResponse . . . . .	286
SRMv2__srmStatusOfLsRequestResponse_ . . . . .	287
SRMv2__srmStatusOfPutRequestRequest . . . . .	288
SRMv2__srmStatusOfPutRequestResponse . . . . .	289
SRMv2__srmStatusOfPutRequestResponse_ . . . . .	290
SRMv2__srmStatusOfReserveSpaceRequestRequest . . . . .	291
SRMv2__srmStatusOfReserveSpaceRequestResponse . . . . .	292
SRMv2__srmStatusOfReserveSpaceRequestResponse_ . . . . .	294
SRMv2__srmStatusOfUpdateSpaceRequestRequest . . . . .	295
SRMv2__srmStatusOfUpdateSpaceRequestResponse . . . . .	296
SRMv2__srmStatusOfUpdateSpaceRequestResponse_ . . . . .	297
SRMv2__srmSuspendRequestRequest . . . . .	298
SRMv2__srmSuspendRequestResponse . . . . .	299
SRMv2__srmSuspendRequestResponse_ . . . . .	300
SRMv2__srmUpdateSpaceRequest . . . . .	301
SRMv2__srmUpdateSpaceResponse . . . . .	303
SRMv2__srmUpdateSpaceResponse_ . . . . .	304
SRMv2__TBringOnlineRequestFileStatus . . . . .	305
SRMv2__TCopyFileRequest . . . . .	306
SRMv2__TCopyRequestFileStatus . . . . .	307
SRMv2__TDirOption . . . . .	309
SRMv2__TExtraInfo . . . . .	310
SRMv2__TGetFileRequest . . . . .	311

SRMv2__TGetRequestFileStatus . . . . .	312
SRMv2__TGroupPermission . . . . .	314
SRMv2__TMetaDataPathDetail . . . . .	315
SRMv2__TMetaDataSpace . . . . .	317
SRMv2__TPermissionReturn . . . . .	319
SRMv2__TPutFileRequest . . . . .	320
SRMv2__TPutRequestFileStatus . . . . .	321
SRMv2__TRequestSummary . . . . .	323
SRMv2__TRequestTokenReturn . . . . .	324
SRMv2__TRetentionPolicyInfo . . . . .	325
SRMv2__TReturnStatus . . . . .	326
SRMv2__TSupportedTransferProtocol . . . . .	327
SRMv2__TSURLLifetimeReturnStatus . . . . .	328
SRMv2__TSURLPermissionReturn . . . . .	329
SRMv2__TSURLReturnStatus . . . . .	330
SRMv2__TTransferParameters . . . . .	331
SRMv2__TUserPermission . . . . .	332
ArcSec::UsernameTokenSH . . . . .	333
ArcSec::X509TokenSH . . . . .	334
ArcSec::XACMLAlgFactory . . . . .	335
ArcSec::XACMLApply . . . . .	336
ArcSec::XACMLAttributeFactory . . . . .	337
ArcSec::XACMLAttributeProxy< TheAttribute > . . . . .	338
ArcSec::XACMLCondition . . . . .	339
ArcSec::XACMLEvaluationCtx . . . . .	340
ArcSec::XACMLEvaluator . . . . .	341
ArcSec::XACMLFnFactory . . . . .	342
ArcSec::XACMLPDP . . . . .	343
ArcSec::XACMLPolicy . . . . .	344
ArcSec::XACMLRequest . . . . .	345
ArcSec::XACMLRule . . . . .	346
ArcSec::XACMLTarget . . . . .	347
ArcSec::XACMLTargetMatch . . . . .	348
ArcSec::XACMLTargetMatchGroup . . . . .	349
ArcSec::XACMLTargetSection . . . . .	350

## Chapter 6

# Data Structure Index

### 6.1 Data Structures

Here are the data structures with brief descriptions:

<b>ArcSec::AllowPDP</b> (This PDP always return true (allow) ) . . . . .	31
<b>ArcSec::ArcAlgFactory</b> (Algorithm factory class for Arc ) . . . . .	32
<b>ArcSec::ArcAttributeFactory</b> (Attribute factory class for Arc specified attributes ) . . . . .	33
<b>ArcSec::ArcAttributeProxy</b> < <b>TheAttribute</b> > (Arc specific AttributeProxy class ) . . . . .	34
<b>ArcSec::ArcAuthZ</b> (Tests message against list of PDPs ) . . . . .	35
<b>ArcSec::ArcEvaluationCtx</b> (EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc ) . . . . .	36
<b>ArcSec::ArcEvaluator</b> (Execute the policy evaluation, based on the request and policy ) . . . .	37
<b>ArcSec::ArcFnFactory</b> (Function factory class for Arc specified attributes ) . . . . .	38
<b>ArcSec::ArcPDP</b> ( <b>ArcPDP</b> (p. 39) - PDP which can handle the Arc specific request and policy schema ) . . . . .	39
<b>ArcSec::ArcPolicy</b> ( <b>ArcPolicy</b> (p. 40) class to parse and operate Arc specific <Policy> node ) .	40
<b>ArcSec::ArcRequest</b> . . . . .	41
<b>ArcSec::ArcRequestItem</b> (Container, <Subjects, Actions, Objects, Contexts> tuple ) . . . . .	42
<b>ArcSec::ArcRequestTuple</b> (RequestTuple, container which includes the ) . . . . .	43
<b>ArcSec::ArcRule</b> ( <b>ArcRule</b> (p. 44) class to parse Arc specific <Rule> node ) . . . . .	44
<b>ArrayOfboolean</b> . . . . .	45
<b>ArrayOfFileMetaData</b> . . . . .	46
<b>ArrayOflong</b> . . . . .	47
<b>ArrayOfRequestFileStatus</b> . . . . .	48
<b>ArrayOfstring</b> . . . . .	49
<b>ArcSec::AttributeDesignator</b> . . . . .	50
<b>ArcSec::AttributeSelector</b> . . . . .	51
<b>Arc::ConfigTlsmcc</b> . . . . .	52
<b>Arc::DataPointARC</b> . . . . .	53
<b>Arc::DataPointFile</b> . . . . .	54
<b>Arc::DataPointGridFTP</b> . . . . .	55
<b>Arc::DataPointHTTP</b> . . . . .	56
<b>Arc::DataPointLDAP</b> . . . . .	57
<b>Arc::DataPointLFC</b> . . . . .	58
<b>Arc::DataPointRLS</b> . . . . .	59
<b>Arc::DataPointSRM</b> . . . . .	60
<b>ArcSec::DelegationCollector</b> . . . . .	61

<b>ArcSec::DelegationMultiSecAttr</b> . . . . .	62
<b>ArcSec::DelegationPDP</b> . . . . .	63
<b>ArcSec::DelegationSecAttr</b> . . . . .	64
<b>ArcSec::DelegationSH</b> . . . . .	65
<b>ArcSec::DenyPDP</b> (This PDP always returns false (deny) ) . . . . .	66
<b>ArcSec::GACLEvaluator</b> . . . . .	67
<b>ArcSec::GACLPDP</b> . . . . .	68
<b>ArcSec::GACLPolicy</b> . . . . .	69
<b>ArcSec::GACLRequest</b> . . . . .	70
<b>Arc::HTTPResponseHeader</b> . . . . .	71
<b>Arc::HTTPSClient</b> . . . . .	72
<b>Arc::HTTPSClientConnector</b> . . . . .	73
<b>Arc::HTTPSClientConnectorGlobus</b> . . . . .	74
<b>Arc::HTTPSClientConnectorGSSAPI</b> . . . . .	75
<b>Arc::HTTPSClientSOAP</b> . . . . .	76
<b>ISRM</b> . . . . .	77
<b>ISRMService</b> . . . . .	78
<b>Arc::LDAPQuery</b> . . . . .	79
<b>Arc::Lister</b> . . . . .	80
<b>Arc::MCC_GSI_Client</b> . . . . .	81
<b>Arc::MCC_GSI_Service</b> . . . . .	82
<b>Arc::MCC_HTTP</b> (A base class for HTTP client and service MCCs ) . . . . .	83
<b>Arc::MCC_HTTP_Client</b> . . . . .	84
<b>Arc::MCC_HTTP_Service</b> . . . . .	85
<b>Arc::MCC_SOAP</b> (A base class for SOAP client and service MCCs ) . . . . .	86
<b>Arc::MCC_SOAP_Client</b> . . . . .	87
<b>Arc::MCC_SOAP_Service</b> . . . . .	88
<b>Arc::MCC_TCP</b> (A base class for TCP client and service MCCs ) . . . . .	89
<b>Arc::MCC_TCP_Client</b> . . . . .	90
<b>Arc::MCC_TCP_Service</b> . . . . .	91
<b>Arc::MCC_TLS</b> (A base class for TLS client and service MCCs ) . . . . .	92
<b>Arc::MCC_TLS_Client</b> . . . . .	93
<b>Arc::MCC_TLS_Service</b> . . . . .	94
<b>Arc::PayloadGSISStream</b> . . . . .	95
<b>Arc::PayloadHTTP</b> . . . . .	96
<b>Arc::PayloadTCPSocket</b> . . . . .	101
<b>Arc::PayloadTLMCC</b> . . . . .	102
<b>Arc::PayloadTLSStream</b> . . . . .	103
<b>ArcSec::PDPServiceInvoker</b> ( <b>PDPServiceInvoker</b> (p. 105) - client which will invoke pdpser-vice ) . . . . .	105
<b>ArcSec::SAML2SSO_AssertionConsumerSH</b> (Implement the functionality of the Service Provider in SAML2 SSO profile ) . . . . .	106
<b>ArcSec::SAMLTokenSH</b> (Adds WS-Security SAML Token into SOAP Header ) . . . . .	107
<b>ArcSec::SimpleListPDP</b> (Tests X509 subject against list of subjects in file ) . . . . .	108
<b>SRM1Client</b> . . . . .	109
<b>SRM22Client</b> . . . . .	115
<b>SRMClient</b> . . . . .	118
<b>SRMClientRequest</b> . . . . .	126
<b>SRMFileInfo</b> . . . . .	128
<b>SRMFileMetaData</b> . . . . .	129
<b>SRMInfo</b> . . . . .	130
<b>SRMInvalidRequestException</b> . . . . .	131
<b>srnSoapBinding</b> . . . . .	132
<b>srnSoapBindingService</b> . . . . .	135



<b>SRMURL</b> . . . . .	136
<b>SRMv1Meth__advisoryDeleteResponse</b> (Operation response struct "SRMv1Meth__advisoryDeleteResponse" of service binding "ISRM" operation "SRMv1Meth__advisoryDelete" ) . . . . .	138
<b>SRMv1Meth__copyResponse</b> (Operation response struct "SRMv1Meth__copyResponse" of service binding "ISRM" operation "SRMv1Meth__copy" ) . . . . .	139
<b>SRMv1Meth__getEstGetTimeResponse</b> (Operation response struct "SRMv1Meth__getEstGetTimeResponse" of service binding "ISRM" operation "SRMv1Meth__getEstGetTime" ) . . . . .	140
<b>SRMv1Meth__getEstPutTimeResponse</b> (Operation response struct "SRMv1Meth__getEstPutTimeResponse" of service binding "ISRM" operation "SRMv1Meth__getEstPutTime" ) . . . . .	141
<b>SRMv1Meth__getFileMetaResponse</b> (Operation response struct "SRMv1Meth__getFileMetaResponse" of service binding "ISRM" operation "SRMv1Meth__getFileMeta" ) . . . . .	142
<b>SRMv1Meth__getProtocolsResponse</b> (Operation response struct "SRMv1Meth__getProtocolsResponse" of service binding "ISRM" operation "SRMv1Meth__getProtocols" ) . . . . .	143
<b>SRMv1Meth__getRequestStatusResponse</b> (Operation response struct "SRMv1Meth__getRequestStatusResponse" of service binding "ISRM" operation "SRMv1Meth__getRequestStatus" ) . . . . .	144
<b>SRMv1Meth__getResponse</b> (Operation response struct "SRMv1Meth__getResponse" of service binding "ISRM" operation "SRMv1Meth__get" ) . . . . .	145
<b>SRMv1Meth__mkPermanentResponse</b> (Operation response struct "SRMv1Meth__mkPermanentResponse" of service binding "ISRM" operation "SRMv1Meth__mkPermanent" ) . . . . .	146
<b>SRMv1Meth__pinResponse</b> (Operation response struct "SRMv1Meth__pinResponse" of service binding "ISRM" operation "SRMv1Meth__pin" ) . . . . .	147
<b>SRMv1Meth__putResponse</b> (Operation response struct "SRMv1Meth__putResponse" of service binding "ISRM" operation "SRMv1Meth__put" ) . . . . .	148
<b>SRMv1Meth__setFileStatusResponse</b> (Operation response struct "SRMv1Meth__setFileStatusResponse" of service binding "ISRM" operation "SRMv1Meth__setFileStatus" ) . . . . .	149
<b>SRMv1Meth__unPinResponse</b> (Operation response struct "SRMv1Meth__unPinResponse" of service binding "ISRM" operation "SRMv1Meth__unPin" ) . . . . .	150
<b>SRMv1Type__FileMeta</b> ("http://www.themindelectric.com/package/diskCacheV111.srm/":FileMeta is a complexType ) . . . . .	151
<b>SRMv1Type__RequestFileStatus</b> ("http://www.themindelectric.com/package/diskCacheV111.srm/":RequestFileStatus is a complexType with complexContent extension of "http://www.themindelectric.com/package/diskCacheV111.srm/":FileMeta ) . . . . .	153
<b>SRMv1Type__RequestStatus</b> ("http://www.themindelectric.com/package/diskCacheV111.srm/":RequestStatus is a complexType ) . . . . .	155
<b>SRMv2__ArrayOfAnyURI</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI is a complexType ) . . . . .	157
<b>SRMv2__ArrayOfString</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfString is a complexType ) . . . . .	158
<b>SRMv2__ArrayOfTBringOnlineRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTBringOnlineRequestFileStatus is a complexType ) . . . . .	159
<b>SRMv2__ArrayOfTCopyFileRequest</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyFileRequest is a complexType ) . . . . .	160
<b>SRMv2__ArrayOfTCopyRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTCopyRequestFileStatus is a complexType ) . . . . .	161
<b>SRMv2__ArrayOfTExtraInfo</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo is a complexType ) . . . . .	162

<b>SRMv2__ArrayOfTGetFileRequest</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetFileRequest is a complexType ) . . . . .	163
<b>SRMv2__ArrayOfTGetRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus is a complexType ) . . . . .	164
<b>SRMv2__ArrayOfTGroupPermission</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission is a complexType ) . . . . .	165
<b>SRMv2__ArrayOfTMetaDataPathDetail</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail is a complexType ) . . . . .	166
<b>SRMv2__ArrayOfTMetaDataSpace</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataSpace is a complexType ) . . . . .	167
<b>SRMv2__ArrayOfTPermissionReturn</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTPermissionReturn is a complexType ) . . . . .	168
<b>SRMv2__ArrayOfTPutFileRequest</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutFileRequest is a complexType ) . . . . .	169
<b>SRMv2__ArrayOfTPutRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus is a complexType ) . . . . .	170
<b>SRMv2__ArrayOfTRequestSummary</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestSummary is a complexType ) . . . . .	171
<b>SRMv2__ArrayOfTRequestTokenReturn</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestTokenReturn is a complexType ) . . . . .	172
<b>SRMv2__ArrayOfTSupportedTransferProtocol</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTSupportedTransferProtocol is a complexType ) . . . . .	173
<b>SRMv2__ArrayOfTURLLifetimeReturnStatus</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTURLLifetimeReturnStatus is a complexType ) . . . . .	174
<b>SRMv2__ArrayOfTURLPermissionReturn</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTURLPermissionReturn is a complexType ) . . . . .	175
<b>SRMv2__ArrayOfTURLReturnStatus</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTURLReturnStatus is a complexType ) . . . . .	176
<b>SRMv2__ArrayOfTUserPermission</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission is a complexType ) . . . . .	177
<b>SRMv2__ArrayOfUnsignedLong</b> ("http://srm.lbl.gov/StorageResourceManager":ArrayOfUnsignedLong is a complexType ) . . . . .	178
<b>SRMv2__srmAbortFilesRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmAbortFilesRequest is a complexType ) . . . . .	179
<b>SRMv2__srmAbortFilesResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmAbortFilesResponse is a complexType ) . . . . .	180
<b>SRMv2__srmAbortFilesResponse_</b> (Operation response struct "SRMv2__- srmAbortFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__- _srmAbortFiles" ) . . . . .	181
<b>SRMv2__srmAbortRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmAbortRequestRequest is a complexType ) . . . . .	182
<b>SRMv2__srmAbortRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmAbortRequestResponse is a complexType ) . . . . .	183
<b>SRMv2__srmAbortRequestResponse_</b> (Operation response struct "SRMv2__- srmAbortRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmAbortRequest" ) . . . . .	184
<b>SRMv2__srmBringOnlineRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmBringOnlineRequest is a complexType ) . . . . .	185
<b>SRMv2__srmBringOnlineResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmBringOnlineResponse is a complexType ) . . . . .	187
<b>SRMv2__srmBringOnlineResponse_</b> (Operation response struct "SRMv2__- srmBringOnlineResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmBringOnline" ) . . . . .	188

<b>SRMv2__srmChangeSpaceForFilesRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmChangeSpaceForFilesRequest is a complexType ) . . . . .	189
<b>SRMv2__srmChangeSpaceForFilesResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmChangeSpaceForFilesResponse is a complexType ) . . . . .	190
<b>SRMv2__srmChangeSpaceForFilesResponse_</b> (Operation response struct "SRMv2__srmChangeSpaceForFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmChangeSpaceForFiles" ) . . . . .	191
<b>SRMv2__srmCheckPermissionRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmCheckPermissionRequest is a complexType ) . . . . .	192
<b>SRMv2__srmCheckPermissionResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmCheckPermissionResponse is a complexType ) . . . . .	193
<b>SRMv2__srmCheckPermissionResponse_</b> (Operation response struct "SRMv2__srmCheckPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmCheckPermission" ) . . . . .	194
<b>SRMv2__srmCopyRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmCopyRequest is a complexType ) . . . . .	195
<b>SRMv2__srmCopyResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmCopyResponse is a complexType ) . . . . .	197
<b>SRMv2__srmCopyResponse_</b> (Operation response struct "SRMv2__srmCopyResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmCopy" ) . . . . .	198
<b>SRMv2__srmExtendFileLifeTimeInSpaceRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceRequest is a complexType ) . . . . .	199
<b>SRMv2__srmExtendFileLifeTimeInSpaceResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceResponse is a complexType ) . . . . .	200
<b>SRMv2__srmExtendFileLifeTimeInSpaceResponse_</b> (Operation response struct "SRMv2__srmExtendFileLifeTimeInSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmExtendFileLifeTimeInSpace" ) . . . . .	201
<b>SRMv2__srmExtendFileLifeTimeRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeRequest is a complexType ) . . . . .	202
<b>SRMv2__srmExtendFileLifeTimeResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeResponse is a complexType ) . . . . .	203
<b>SRMv2__srmExtendFileLifeTimeResponse_</b> (Operation response struct "SRMv2__srmExtendFileLifeTimeResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmExtendFileLifeTime" ) . . . . .	204
<b>SRMv2__srmGetPermissionRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetPermissionRequest is a complexType ) . . . . .	205
<b>SRMv2__srmGetPermissionResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetPermissionResponse is a complexType ) . . . . .	206
<b>SRMv2__srmGetPermissionResponse_</b> (Operation response struct "SRMv2__srmGetPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetPermission" ) . . . . .	207
<b>SRMv2__srmGetRequestSummaryRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetRequestSummaryRequest is a complexType ) . . . . .	208
<b>SRMv2__srmGetRequestSummaryResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetRequestSummaryResponse is a complexType ) . . . . .	209
<b>SRMv2__srmGetRequestSummaryResponse_</b> (Operation response struct "SRMv2__srmGetRequestSummaryResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetRequestSummary" ) . . . . .	210
<b>SRMv2__srmGetRequestTokensRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetRequestTokensRequest is a complexType ) . . . . .	211
<b>SRMv2__srmGetRequestTokensResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetRequestTokensResponse is a complexType ) . . . . .	212

<b>SRMv2__srmGetRequestTokensResponse_</b> (Operation response struct "SRMv2__srmGetRequestTokensResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetRequestTokens" ) . . . . .	213
<b>SRMv2__srmGetSpaceMetaDataRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetSpaceMetaDataRequest is a complexType ) . . . . .	214
<b>SRMv2__srmGetSpaceMetaDataResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetSpaceMetaDataResponse is a complexType ) . . . . .	215
<b>SRMv2__srmGetSpaceMetaDataResponse_</b> (Operation response struct "SRMv2__srmGetSpaceMetaDataResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetSpaceMetaData" ) . . . . .	216
<b>SRMv2__srmGetSpaceTokensRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetSpaceTokensRequest is a complexType ) . . . . .	217
<b>SRMv2__srmGetSpaceTokensResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetSpaceTokensResponse is a complexType ) . . . . .	218
<b>SRMv2__srmGetSpaceTokensResponse_</b> (Operation response struct "SRMv2__srmGetSpaceTokensResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetSpaceTokens" ) . . . . .	219
<b>SRMv2__srmGetTransferProtocolsRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetTransferProtocolsRequest is a complexType ) . . . . .	220
<b>SRMv2__srmGetTransferProtocolsResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmGetTransferProtocolsResponse is a complexType ) . . . . .	221
<b>SRMv2__srmGetTransferProtocolsResponse_</b> (Operation response struct "SRMv2__srmGetTransferProtocolsResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmGetTransferProtocols" ) . . . . .	222
<b>SRMv2__srmLsRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmLsRequest is a complexType ) . . . . .	223
<b>SRMv2__srmLsResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmLsResponse is a complexType ) . . . . .	224
<b>SRMv2__srmLsResponse_</b> (Operation response struct "SRMv2__srmLsResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmLs" ) . . . . .	225
<b>SRMv2__srmMkdirRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmMkdirRequest is a complexType ) . . . . .	226
<b>SRMv2__srmMkdirResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmMkdirResponse is a complexType ) . . . . .	227
<b>SRMv2__srmMkdirResponse_</b> (Operation response struct "SRMv2__srmMkdirResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmMkdir" ) . . . . .	228
<b>SRMv2__srmMvRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmMvRequest is a complexType ) . . . . .	229
<b>SRMv2__srmMvResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmMvResponse is a complexType ) . . . . .	230
<b>SRMv2__srmMvResponse_</b> (Operation response struct "SRMv2__srmMvResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmMv" ) . . . . .	231
<b>SRMv2__srmPingRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmPingRequest is a complexType ) . . . . .	232
<b>SRMv2__srmPingResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmPingResponse is a complexType ) . . . . .	233
<b>SRMv2__srmPingResponse_</b> (Operation response struct "SRMv2__srmPingResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPing" ) . . . . .	234
<b>SRMv2__srmPrepareToGetRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmPrepareToGetRequest is a complexType ) . . . . .	235
<b>SRMv2__srmPrepareToGetResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmPrepareToGetResponse is a complexType ) . . . . .	237

<b>SRMv2__srmPrepareToGetResponse_</b> (Operation response struct "SRMv2__srmPrepareToGetResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPrepareToGet" ) . . . . .	238
<b>SRMv2__srmPrepareToPutRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmPrepareToPutRequest is a complexType ) . . . . .	239
<b>SRMv2__srmPrepareToPutResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmPrepareToPutResponse is a complexType ) . . . . .	241
<b>SRMv2__srmPrepareToPutResponse_</b> (Operation response struct "SRMv2__srmPrepareToPutResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPrepareToPut" ) . . . . .	242
<b>SRMv2__srmPurgeFromSpaceRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmPurgeFromSpaceRequest is a complexType ) . . . . .	243
<b>SRMv2__srmPurgeFromSpaceResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmPurgeFromSpaceResponse is a complexType ) . . . . .	244
<b>SRMv2__srmPurgeFromSpaceResponse_</b> (Operation response struct "SRMv2__srmPurgeFromSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPurgeFromSpace" ) . . . . .	245
<b>SRMv2__srmPutDoneRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmPutDoneRequest is a complexType ) . . . . .	246
<b>SRMv2__srmPutDoneResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmPutDoneResponse is a complexType ) . . . . .	247
<b>SRMv2__srmPutDoneResponse_</b> (Operation response struct "SRMv2__srmPutDoneResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmPutDone" ) . . . . .	248
<b>SRMv2__srmReleaseFilesRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmReleaseFilesRequest is a complexType ) . . . . .	249
<b>SRMv2__srmReleaseFilesResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmReleaseFilesResponse is a complexType ) . . . . .	250
<b>SRMv2__srmReleaseFilesResponse_</b> (Operation response struct "SRMv2__srmReleaseFilesResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReleaseFiles" ) . . . . .	251
<b>SRMv2__srmReleaseSpaceRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmReleaseSpaceRequest is a complexType ) . . . . .	252
<b>SRMv2__srmReleaseSpaceResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmReleaseSpaceResponse is a complexType ) . . . . .	253
<b>SRMv2__srmReleaseSpaceResponse_</b> (Operation response struct "SRMv2__srmReleaseSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReleaseSpace" ) . . . . .	254
<b>SRMv2__srmReserveSpaceRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmReserveSpaceRequest is a complexType ) . . . . .	255
<b>SRMv2__srmReserveSpaceResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmReserveSpaceResponse is a complexType ) . . . . .	257
<b>SRMv2__srmReserveSpaceResponse_</b> (Operation response struct "SRMv2__srmReserveSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmReserveSpace" ) . . . . .	259
<b>SRMv2__srmResumeRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmResumeRequestRequest is a complexType ) . . . . .	260
<b>SRMv2__srmResumeRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmResumeRequestResponse is a complexType ) . . . . .	261
<b>SRMv2__srmResumeRequestResponse_</b> (Operation response struct "SRMv2__srmResumeRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmResumeRequest" ) . . . . .	262
<b>SRMv2__srmRmdirRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmRmdirRequest is a complexType ) . . . . .	263

<b>SRMv2__srmRmdirResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmRmdirResponse is a complexType ) . . . . .	264
<b>SRMv2__srmRmdirResponse_</b> (Operation response struct "SRMv2__srmRmdirResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmRmdir" ) . . . . .	265
<b>SRMv2__srmRmRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmRmRequest is a complexType ) . . . . .	266
<b>SRMv2__srmRmResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmRmResponse is a complexType ) . . . . .	267
<b>SRMv2__srmRmResponse_</b> (Operation response struct "SRMv2__srmRmResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmRm" ) . . . . .	268
<b>SRMv2__srmSetPermissionRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmSetPermissionRequest is a complexType ) . . . . .	269
<b>SRMv2__srmSetPermissionResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmSetPermissionResponse is a complexType ) . . . . .	271
<b>SRMv2__srmSetPermissionResponse_</b> (Operation response struct "SRMv2__srmSetPermissionResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmSetPermission" ) . . . . .	272
<b>SRMv2__srmStatusOfBringOnlineRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestRequest is a complexType ) . . . . .	273
<b>SRMv2__srmStatusOfBringOnlineRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestResponse is a complexType ) . . . . .	274
<b>SRMv2__srmStatusOfBringOnlineRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfBringOnlineRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfBringOnlineRequest" ) . . . . .	275
<b>SRMv2__srmStatusOfChangeSpaceForFilesRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfChangeSpaceForFilesRequestRequest is a complexType ) . . . . .	276
<b>SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfChangeSpaceForFilesRequestResponse is a complexType ) . . . . .	277
<b>SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfChangeSpaceForFilesRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfChangeSpaceForFilesRequest" ) . . . . .	278
<b>SRMv2__srmStatusOfCopyRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfCopyRequestRequest is a complexType ) . . . . .	279
<b>SRMv2__srmStatusOfCopyRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfCopyRequestResponse is a complexType ) . . . . .	280
<b>SRMv2__srmStatusOfCopyRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfCopyRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfCopyRequest" ) . . . . .	281
<b>SRMv2__srmStatusOfGetRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfGetRequestRequest is a complexType ) . . . . .	282
<b>SRMv2__srmStatusOfGetRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfGetRequestResponse is a complexType ) . . . . .	283
<b>SRMv2__srmStatusOfGetRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfGetRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfGetRequest" ) . . . . .	284
<b>SRMv2__srmStatusOfLsRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfLsRequestRequest is a complexType ) . . . . .	285
<b>SRMv2__srmStatusOfLsRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfLsRequestResponse is a complexType ) . . . . .	286
<b>SRMv2__srmStatusOfLsRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfLsRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfLsRequest" ) . . . . .	287

<b>SRMv2__srmStatusOfPutRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfPutRequestRequest is a complexType ) . . . . .	288
<b>SRMv2__srmStatusOfPutRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfPutRequestResponse is a complexType ) . . . . .	289
<b>SRMv2__srmStatusOfPutRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfPutRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfPutRequest" ) . . . . .	290
<b>SRMv2__srmStatusOfReserveSpaceRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestRequest is a complexType ) . . . . .	291
<b>SRMv2__srmStatusOfReserveSpaceRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestResponse is a complexType ) . . . . .	292
<b>SRMv2__srmStatusOfReserveSpaceRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfReserveSpaceRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfReserveSpaceRequest" ) . . . . .	294
<b>SRMv2__srmStatusOfUpdateSpaceRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestRequest is a complexType ) . . . . .	295
<b>SRMv2__srmStatusOfUpdateSpaceRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestResponse is a complexType ) . . . . .	296
<b>SRMv2__srmStatusOfUpdateSpaceRequestResponse_</b> (Operation response struct "SRMv2__srmStatusOfUpdateSpaceRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmStatusOfUpdateSpaceRequest" ) . . . . .	297
<b>SRMv2__srmSuspendRequestRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmSuspendRequestRequest is a complexType ) . . . . .	298
<b>SRMv2__srmSuspendRequestResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmSuspendRequestResponse is a complexType ) . . . . .	299
<b>SRMv2__srmSuspendRequestResponse_</b> (Operation response struct "SRMv2__srmSuspendRequestResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmSuspendRequest" ) . . . . .	300
<b>SRMv2__srmUpdateSpaceRequest</b> ("http://srm.lbl.gov/StorageResourceManager":srmUpdateSpaceRequest is a complexType ) . . . . .	301
<b>SRMv2__srmUpdateSpaceResponse</b> ("http://srm.lbl.gov/StorageResourceManager":srmUpdateSpaceResponse is a complexType ) . . . . .	303
<b>SRMv2__srmUpdateSpaceResponse_</b> (Operation response struct "SRMv2__srmUpdateSpaceResponse_" of service binding "srmSoapBinding" operation "SRMv2__srmUpdateSpace" ) . . . . .	304
<b>SRMv2__TBringOnlineRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TBringOnlineRequestFileStatus is a complexType ) . . . . .	305
<b>SRMv2__TCopyFileRequest</b> ("http://srm.lbl.gov/StorageResourceManager":TCopyFileRequest is a complexType ) . . . . .	306
<b>SRMv2__TCopyRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TCopyRequestFileStatus is a complexType ) . . . . .	307
<b>SRMv2__TDirOption</b> ("http://srm.lbl.gov/StorageResourceManager":TDirOption is a complexType ) . . . . .	309
<b>SRMv2__TEExtraInfo</b> ("http://srm.lbl.gov/StorageResourceManager":TEExtraInfo is a complexType ) . . . . .	310
<b>SRMv2__TGetFileRequest</b> ("http://srm.lbl.gov/StorageResourceManager":TGetFileRequest is a complexType ) . . . . .	311
<b>SRMv2__TGetRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TGetRequestFileStatus is a complexType ) . . . . .	312
<b>SRMv2__TGroupPermission</b> ("http://srm.lbl.gov/StorageResourceManager":TGroupPermission is a complexType ) . . . . .	314
<b>SRMv2__TMetaDataPathDetail</b> ("http://srm.lbl.gov/StorageResourceManager":TMetaDataPathDetail is a complexType ) . . . . .	315

<b>SRMv2__TMetaDataSet</b> ("http://srm.lbl.gov/StorageResourceManager":TMetaDataSet is a complexType ) . . . . .	317
<b>SRMv2__TPermissionReturn</b> ("http://srm.lbl.gov/StorageResourceManager":TPermissionReturn is a complexType ) . . . . .	319
<b>SRMv2__TPutFileRequest</b> ("http://srm.lbl.gov/StorageResourceManager":TPutFileRequest is a complexType ) . . . . .	320
<b>SRMv2__TPutRequestFileStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TPutRequestFileStatus is a complexType ) . . . . .	321
<b>SRMv2__TRequestSummary</b> ("http://srm.lbl.gov/StorageResourceManager":TRequestSummary is a complexType ) . . . . .	323
<b>SRMv2__TRequestTokenReturn</b> ("http://srm.lbl.gov/StorageResourceManager":TRequestTokenReturn is a complexType ) . . . . .	324
<b>SRMv2__TRetentionPolicyInfo</b> ("http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo is a complexType ) . . . . .	325
<b>SRMv2__TReturnStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TReturnStatus is a complexType ) . . . . .	326
<b>SRMv2__TSupportedTransferProtocol</b> ("http://srm.lbl.gov/StorageResourceManager":TSupportedTransferProtocol is a complexType ) . . . . .	327
<b>SRMv2__TSURLLifetimeReturnStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TSURLLifetimeReturnStatus is a complexType ) . . . . .	328
<b>SRMv2__TSURLPermissionReturn</b> ("http://srm.lbl.gov/StorageResourceManager":TSURLPermissionReturn is a complexType ) . . . . .	329
<b>SRMv2__TSURLReturnStatus</b> ("http://srm.lbl.gov/StorageResourceManager":TSURLReturnStatus is a complexType ) . . . . .	330
<b>SRMv2__TTransferParameters</b> ("http://srm.lbl.gov/StorageResourceManager":TTransferParameters is a complexType ) . . . . .	331
<b>SRMv2__TUserPermission</b> ("http://srm.lbl.gov/StorageResourceManager":TUserPermission is a complexType ) . . . . .	332
<b>ArcSec::UsernameTokenSH</b> (Adds WS-Security Username Token into SOAP Header ) . . . .	333
<b>ArcSec::X509TokenSH</b> (Adds WS-Security X509 Token into SOAP Header ) . . . . .	334
<b>ArcSec::XACMLAlgFactory</b> (Algorithm factory class for XACML ) . . . . .	335
<b>ArcSec::XACMLApply</b> . . . . .	336
<b>ArcSec::XACMLAttributeFactory</b> (Attribute factory class for XACML specified attributes ) .	337
<b>ArcSec::XACMLAttributeProxy</b> < <b>TheAttribute</b> > (XACML specific AttributeProxy class ) .	338
<b>ArcSec::XACMLCondition</b> ( <b>XACMLCondition</b> (p. 339) class to parse and operate XACML specific <Condition> node ) . . . . .	339
<b>ArcSec::XACMLEvaluationCtx</b> (EvaluationCtx, in charge of storing some context information for evaluation, including Request, current time, etc ) . . . . .	340
<b>ArcSec::XACMLEvaluator</b> (Execute the policy evaluation, based on the request and policy ) .	341
<b>ArcSec::XACMLFnFactory</b> (Function factory class for XACML specified attributes ) . . . .	342
<b>ArcSec::XACMLPDP</b> ( <b>XACMLPDP</b> (p. 343) - PDP which can handle the XACML specific request and policy schema ) . . . . .	343
<b>ArcSec::XACMLPolicy</b> ( <b>XACMLPolicy</b> (p. 344) class to parse and operate XACML specific <Policy> node ) . . . . .	344
<b>ArcSec::XACMLRequest</b> . . . . .	345
<b>ArcSec::XACMLRule</b> ( <b>XACMLRule</b> (p. 346) class to parse XACML specific <Rule> node ) .	346
<b>ArcSec::XACMLTarget</b> ( <b>XACMLTarget</b> (p. 347) class to parse and operate XACML specific <Target> node ) . . . . .	347
<b>ArcSec::XACMLTargetMatch</b> . . . . .	348
<b>ArcSec::XACMLTargetMatchGroup</b> . . . . .	349
<b>ArcSec::XACMLTargetSection</b> . . . . .	350



# Chapter 7

## Namespace Documentation

### 7.1 ArcSec Namespace Reference

**ArcRequest** (p. 41), 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. 39) - PDP which can handle the Arc specific request and policy schema.*
- class **ArcPolicy**  
*ArcPolicy (p. 40) class to parse and operate Arc specific <Policy> node.*
- class **ArcRequest**
- class **ArcRequestItem**  
*Container, <Subjects, Actions, Objects, Contexts> tuple.*
- class **ArcRule**  
*ArcRule (p. 44) 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. 105) - client which will invoke pdpservice.*
- class **SAML2SSO\_AssertionConsumerSH**  
*Implement the functionality 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. 339) 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. 343) - PDP which can handle the XACML specific request and policy schema.*

- class **XACMLPolicy**

*XACMLPolicy (p. 344) class to parse and operate XACML specific <Policy> node.*

- class **XACMLRequest**

- class **XACMLRule**

*XACMLRule (p. 346) class to parse XACML specific <Rule> node.*

- class **XACMLTargetMatch**

- class **XACMLTargetMatchGroup**

- class **XACMLTargetSection**

- class **XACMLTarget**

*XACMLTarget (p. 347) 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. 41), Parsing the specified Arc request format. **XACMLRequest** (p. 345), 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 means 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. 32) 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. 38) 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. 39) - PDP which can handle the Arc specific request and policy schema.

```
#include <ArcPDP.h>
```

### 8.9.1 Detailed Description

**ArcPDP** (p. 39) - 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. 40) 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. 40) 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. 42) 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. 44) class to parse Arc specific <Rule> node.

```
#include <ArcRule.h>
```

### 8.14.1 Detailed Description

**ArcRule** (p. 44) 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 <srml_soap.h>
```

### Data Fields

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

### 8.15.1 Detailed Description

"<http://www.themindelectric.com/package/>":**ArrayOfboolean** (p. 45) 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 file:

- `srml_soap.h`

## 8.16 ArrayOfFileMetaData Class Reference

```
#include <srml_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. 46) 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 file:

- srm1\_soap.h

## 8.17 ArrayOflong Class Reference

```
#include <srml_soap.h>
```

### Data Fields

- LONG64 \* \_\_ptr
- int \_\_size
- struct soap \* soap

### 8.17.1 Detailed Description

"http://www.themindelectric.com/package/":**ArrayOflong** (p. 47) 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 file:

- srml\_soap.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. 48) 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 file:

- srm1\_soap.h

## 8.19 ArrayOfstring Class Reference

```
#include <srml_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. 49) 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 file:

- srml\_soap.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::ConfigTLMCC Class Reference

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

- ConfigTLMCC.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

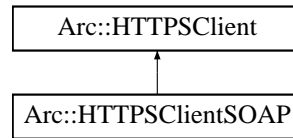
## 8.41 Arc::HTTPResponseHeader Class Reference

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

- HTTPSCient.h

## 8.42 Arc::HTTPSCient Class Reference

Inheritance diagram for Arc::HTTPSCient::



### Public Member Functions

- int **connect** (void)

#### 8.42.1 Member Function Documentation

##### 8.42.1.1 int Arc::HTTPSCient::connect (void)

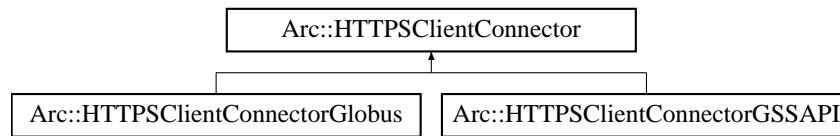
Returns 0 on success, 1 on timeout and -1 on other error

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

- HTTPSCient.h

## 8.43 Arc::HTTPSClientConnector Class Reference

Inheritance diagram for Arc::HTTPSClientConnector::



### Protected Member Functions

- virtual bool **connect** (bool &timeout)
- 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. 73) and **write**() (p. 73). Reset set buffers if operation complete.

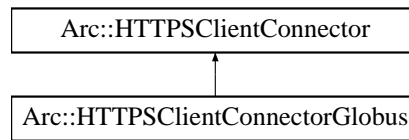
Reimplemented in **Arc::HTTPSClientConnectorGlobus** (p. 74), and **Arc::HTTPSClientConnectorGSSAPI** (p. 75).

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

- HTTPSClient.h

## 8.44 Arc::HTTPClientConnectorGlobus Class Reference

Inheritance diagram for Arc::HTTPClientConnectorGlobus::



### Protected Member Functions

- virtual bool **connect** (bool &timeout)
- 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::HTTPClientConnectorGlobus::transfer (bool & read, bool & write, int timeout) [protected, virtual]

Transfer data set by **read**() (p. 74) and **write**() (p. 74). Reset set buffers if operation complete.

Reimplemented from **Arc::HTTPClientConnector** (p. 73).

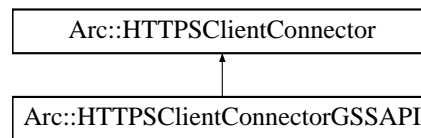
The documentation for this class was generated from the following file:

- HTTPClient.h



## 8.45 Arc::HTTPClientConnectorGSSAPI Class Reference

Inheritance diagram for Arc::HTTPClientConnectorGSSAPI::



### Protected Member Functions

- virtual bool **connect** (bool &timeout)
- 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::HTTPClientConnectorGSSAPI::transfer (bool & *read*, bool & *write*, int *timeout*) [**protected**, **virtual**]

Transfer data set by **read**() (p. 75) and **write**() (p. 75). Reset set buffers if operation complete.

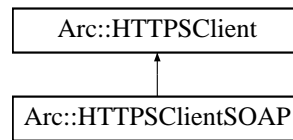
Reimplemented from **Arc::HTTPClientConnector** (p. 73).

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

- HTTPClient.h

## 8.46 Arc::HTTPClientSOAP Class Reference

Inheritance diagram for Arc::HTTPClientSOAP::



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

- HTTPClient.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. 79) 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. 79) 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:

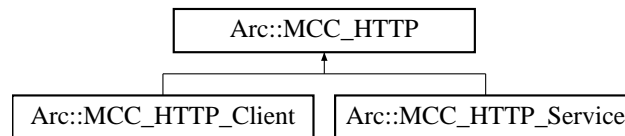
- MCCGSI.h



## 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

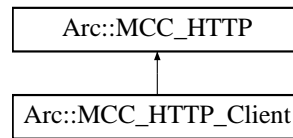
A base class for HTTP client and service MCCs. This is a base class for HTTP client and service MCCs. It provides some common functionality for them, i.e. so far only a logger.

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

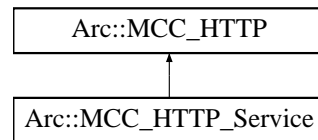
This class is a client part of HTTP MCC. It accepts PayloadRawInterface payload and uses it as body to generate HTTP request. Request is passed to next MCC as PayloadRawInterface type of payload. Returned PayloadStreamInterface payload is parsed into HTTP response and it's body is passed back to calling MCC as PayloadRawInterface. Attributes of request/input message of type HTTP:name are translated into HTTP header with corresponding 'name's. Special attributes HTTP:METHORD 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 and its body is converted into PayloadRaw and passed to next MCC. Returned payload of PayloadRawInterface type is treated as body part of returning **PayloadHTTP** (p. 96). Generated HTTP response is sent through 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.

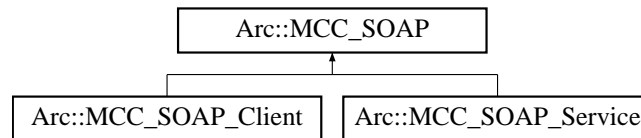
The documentation for this class was generated from the following file:

- MCCHTTP.h

## 8.56 Arc::MCC\_SOAP Class Reference

A base class for SOAP client and service MCCs.

#include <MCCSOAP.h> Inheritance diagram for Arc::MCC\_SOAP::



### 8.56.1 Detailed Description

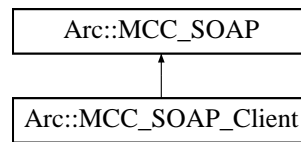
A base class for SOAP client and service MCCs. This is a base class for SOAP client and service MCCs. It provides some common functionality for them, i.e. so far only a logger.

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

- MCCSOAP.h

## 8.57 Arc::MCC\_SOAP\_Client Class Reference

Inheritance diagram for Arc::MCC\_SOAP\_Client::

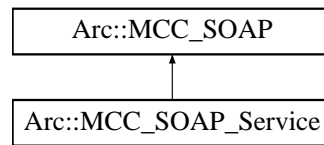


The documentation for this class was generated from the following file:

- MCCSOAP.h

## 8.58 Arc::MCC\_SOAP\_Service Class Reference

#include <MCCSOAP.h> Inheritance diagram for Arc::MCC\_SOAP\_Service::



### 8.58.1 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.

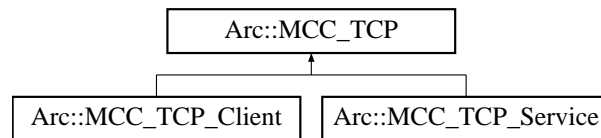
The documentation for this class was generated from the following file:

- MCCSOAP.h

## 8.59 Arc::MCC\_TCP Class Reference

A base class for TCP client and service MCCs.

#include <MCCTCP.h> Inheritance diagram for Arc::MCC\_TCP::



### 8.59.1 Detailed Description

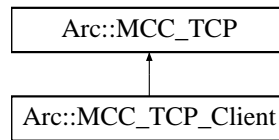
A base class for TCP client and service MCCs. This is a base class for TCP client and service MCCs. It provides some common functionality for them, i.e. so far only a logger.

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

- MCCTCP.h

## 8.60 Arc::MCC\_TCP\_Client Class Reference

`#include <MCCTCP.h>`Inheritance diagram for Arc::MCC\_TCP\_Client::



### 8.60.1 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.

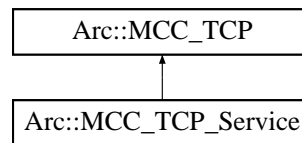
The documentation for this class was generated from the following file:

- MCCTCP.h



## 8.61 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)

#### 8.61.1 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`

#### 8.61.2 Constructor & Destructor Documentation

##### 8.61.2.1 Arc::MCC\_TCP\_Service::MCC\_TCP\_Service (Config \*cfg)

executing function for connection thread

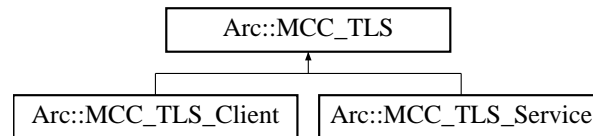
The documentation for this class was generated from the following file:

- `MCCTCP.h`

## 8.62 Arc::MCC\_TLS Class Reference

A base class for TLS client and service MCCs.

#include <MCCTLS.h> Inheritance diagram for Arc::MCC\_TLS::



### 8.62.1 Detailed Description

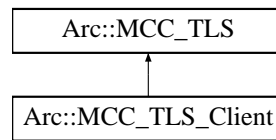
A base class for TLS client and service MCCs. This is a base class for TLS client and service MCCs. It provides some common functionality for them.

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

- MCCTLS.h

## 8.63 Arc::MCC\_TLS\_Client Class Reference

`#include <MCCTLS.h>`Inheritance diagram for Arc::MCC\_TLS\_Client::



### 8.63.1 Detailed Description

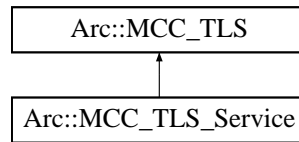
This class is MCC implementing TLS client.

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

- MCCTLS.h

## 8.64 Arc::MCC\_TLS\_Service Class Reference

#include <MCCTLS.h> Inheritance diagram for Arc::MCC\_TLS\_Service::



### 8.64.1 Detailed Description

This MCC implements TLS server side functionality. Upon creation this object creates 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. 90), 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. 84) calls the process() method of **MCC\_TLS\_Client** (p. 93) object, or **MCC\_TCP\_Service** (p. 91) calls the process() method of **MCC\_TLS\_Service** (p. 94) object. The "ssl" object is embeded in a payload called PayloadTLSSocket.

The process() method of **MCC\_TLS\_Service** (p. 94) 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

## 8.65 Arc::PayloadGSISStream Class Reference

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

- PayloadGSISStream.h

## 8.66 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\_**

#### 8.66.1 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.

## 8.66.2 Constructor & Destructor Documentation

### 8.66.2.1 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.

### 8.66.2.2 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.

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

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

### 8.66.2.4 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.

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

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

## 8.66.3 Member Function Documentation

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

Adds HTTP header attribute 'name' = 'value'

### 8.66.3.2 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.

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

Returns all HTTP header attributes.

#### 8.66.3.4 **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.

#### 8.66.3.5 **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.

#### 8.66.3.6 **bool Arc::PayloadHTTP::get\_body (void) [protected]**

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

#### 8.66.3.7 **bool Arc::PayloadHTTP::parse\_header (void) [protected]**

Read HTTP header and fill internal variables

#### 8.66.3.8 **bool Arc::PayloadHTTP::read (char \* *buf*, int64\_t & *size*) [protected]**

Read up to 'size' bytes from stream\_

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

Read from stream till

### 8.66.4 **Field Documentation**

#### 8.66.4.1 **std::multimap<std::string, std::string> Arc::PayloadHTTP::attributes\_ [protected]**

true if connection should not be closed after response

#### 8.66.4.2 **bool Arc::PayloadHTTP::body\_own\_ [protected]**

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

#### 8.66.4.3 **bool Arc::PayloadHTTP::chunked\_ [protected]**

Content-length of HTTP message

#### 8.66.4.4 **int Arc::PayloadHTTP::code\_ [protected]**

HTTP method being used or requested



**8.66.4.5 bool Arc::PayloadHTTP::keep\_alive\_ [protected]**

true if content is chunked

**8.66.4.6 int64\_t Arc::PayloadHTTP::length\_ [protected]**

HTTP reason being sent or supplied

**8.66.4.7 std::string Arc::PayloadHTTP::method\_ [protected]**

minor number of HTTP version - must be 0 or 1

**8.66.4.8 PayloadRawInterface\* Arc::PayloadHTTP::rbody\_ [protected]**

if true stream\_ is owned by this

**8.66.4.9 std::string Arc::PayloadHTTP::reason\_ [protected]**

HTTP code being sent or supplied

**8.66.4.10 PayloadStreamInterface\* Arc::PayloadHTTP::sbody\_ [protected]**

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

**8.66.4.11 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\_.

**8.66.4.12 bool Arc::PayloadHTTP::stream\_own\_ [protected]**

stream used to communicate to outside

**8.66.4.13 std::string Arc::PayloadHTTP::uri\_ [protected]**

if true body\_ is owned by this

**8.66.4.14 int Arc::PayloadHTTP::version\_major\_ [protected]**

URI being contacted

**8.66.4.15 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

## 8.67 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)

### 8.67.1 Detailed Description

This class extends PayloadStream with TCP socket specific features

### 8.67.2 Constructor & Destructor Documentation

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

Constructor - connects to TCP server at specified hostname:port

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

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

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

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

#### 8.67.2.4 Arc::PayloadTCPSocket::PayloadTCPSocket (PayloadTCPSocket & *s*) [inline]

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

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

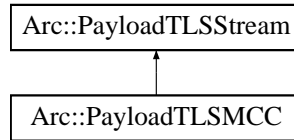
Copy constructor - inherits handle of copied object. Handle is NOT closed in destructor.

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

- PayloadTCPSocket.h

## 8.68 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)

### 8.68.1 Constructor & Destructor Documentation

#### 8.68.1.1 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.

#### 8.68.1.2 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.

#### 8.68.1.3 Arc::PayloadTlSMCC::PayloadTlSMCC (PayloadTlSMCC & *stream*)

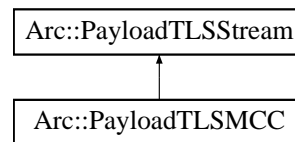
Copy constructor with new logger. Created object shares same SSL objects but does not destroy them in destructor. Main instance must be destroyed after all copied ones.

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

- PayloadTlSMCC.h

## 8.69 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\_**

### 8.69.1 Detailed Description

Implemetation of PayloadStreamInterface for SSL handle.

### 8.69.2 Constructor & Destructor Documentation

#### 8.69.2.1 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.

#### 8.69.2.2 virtual Arc::PayloadTLSStream::~~PayloadTLSStream (void) [virtual]

Destructor.

### 8.69.3 Member Function Documentation

#### 8.69.3.1 X509\* Arc::PayloadTLSStream::GetCert (void)

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

### 8.69.3.2 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.

### 8.69.3.3 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.

## 8.69.4 Field Documentation

### 8.69.4.1 SSL\* Arc::PayloadTLSStream::ssl\_ [protected]

Timeout for read/write operations

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

- PayloadTLSStream.h

## 8.70 ArcSec::PDPServiceInvoker Class Reference

**PDPServiceInvoker** (p. 105) - client which will invoke pdpservice.

```
#include <PDPServiceInvoker.h>
```

### 8.70.1 Detailed Description

**PDPServiceInvoker** (p. 105) - client which will invoke pdpservice.

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

- PDPServiceInvoker.h

## 8.71 ArcSec::SAML2SSO\_AssertionConsumerSH Class Reference

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

```
#include <SAML2SSO_AssertionConsumerSH.h>
```

### 8.71.1 Detailed Description

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

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

- SAML2SSO\_AssertionConsumerSH.h



## 8.72 ArcSec::SAMLTokenSH Class Reference

Adds WS-Security SAML Token into SOAP Header.

```
#include <SAMLTokenSH.h>
```

### 8.72.1 Detailed Description

Adds WS-Security SAML Token into SOAP Header.

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

- SAMLTokenSH.h

## 8.73 ArcSec::SimpleListPDP Class Reference

Tests X509 subject against list of subjects in file.

```
#include <SimpleListPDP.h>
```

### 8.73.1 Detailed Description

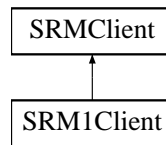
Tests X509 subject against list of subjects in file. This class implements PDP interface. It's isPermitted() method compares X509 subject of requestor obtained from TLS layer (TLS:PEERDN) to list of subjects (one per line) in external file. Location of file is defined by 'location' attribute of PDP configuration.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

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

- SimpleListPDP.h

## 8.74 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 > &meta-data, const int recursive=0, bool report\_error=true)
- SRMReturnCode **remove** (SRMClientRequest &req)
- SRMReturnCode **copy** (SRMClientRequest &req, const std::string &source)

### 8.74.1 Member Function Documentation

#### 8.74.1.1 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. 119).

#### 8.74.1.2 **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 URL

##### **Returns:**

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 119).

#### 8.74.1.3 **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. 120).

#### 8.74.1.4 **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. 120).

#### 8.74.1.5 SRMReturnCode SRM1Client::getURLs (SRMClientRequest & *req*, std::list< std::string > & *urls*) [virtual]

If the user wishes to copy a file from somewhere, `getURLs()` (p. 111) 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. 121).

#### 8.74.1.6 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. 129)

Implements **SRMClient** (p. 121).

#### 8.74.1.7 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. 122).

#### 8.74.1.8 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 suppresses 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. 122).

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

If the user wishes to copy a file to somewhere, **putURLs()** (p. 112) is called to retrieve the transport URL to copy the file to.

##### Parameters:

*req* The request object  
*urls* A list of URLs filled by the method  
*size* The size of the file

##### Returns:

SRMReturnCode specifying outcome of operation

Implements **SRMClient** (p. 122).

#### 8.74.1.10 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. 123).

**8.74.1.11 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. 123).

**8.74.1.12 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. 123).

**8.74.1.13 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. 123).

**8.74.1.14 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. 114) 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. 124).

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

Query the status of a request to bring files online. The URLs 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. 124).

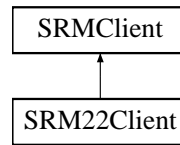
The documentation for this class was generated from the following file:

- SRM1Client.h



## 8.75 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 **getURLs** (SRMClientRequest &req, std::list< std::string > &urls)
- SRMReturnCode **putURLs** (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 > &meta-data, 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)

### 8.75.1 Member Function Documentation

#### 8.75.1.1 SRMReturnCode SRM22Client::abort (SRMClientRequest & req) [virtual]

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

Implements **SRMClient** (p. 119).

#### 8.75.1.2 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. 119).

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

Use srmGetRequestTokens to return a list of spaces available

Implements **SRMClient** (p. 120).

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

Use srmGetSpaceTokens to return a list of spaces available

Implements **SRMClient** (p. 120).

**8.75.1.5 SRMReturnCode SRM22Client::getURLs (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. 121).

**8.75.1.6 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. 121).

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

Call srmMkDir

Implements **SRMClient** (p. 122).

**8.75.1.8 SRMReturnCode SRM22Client::ping (std::string & *version*, bool *report\_error* = true) [virtual]**

Get the server version from srmPing

Implements **SRMClient** (p. 122).

**8.75.1.9 SRMReturnCode SRM22Client::putURLs (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. 122).

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

Not used in this version of SRM

Implements **SRMClient** (p. 123).

**8.75.1.11 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. 123).

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

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

Implements **SRMClient** (p. 123).

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

Delete by srmRm or srmRmDir

Implements **SRMClient** (p. 123).

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

Call srmBringOnline with the URLs specified in req.

Implements **SRMClient** (p. 124).

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

Call srmStatusOfBringOnlineRequest and update req with any changes.

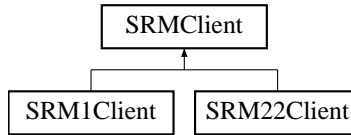
Implements **SRMClient** (p. 124).

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

- SRM22Client.h

## 8.76 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**

### 8.76.1 Detailed Description

A client interface to the SRM protocol. Instances of SRM clients are created by calling the **getInstance()** (p. 120) 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.

### 8.76.2 Constructor & Destructor Documentation

#### 8.76.2.1 virtual SRMClient::~SRMClient () [inline, virtual]

empty destructor

### 8.76.3 Member Function Documentation

#### 8.76.3.1 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. 109), and **SRM22Client** (p. 115).

#### 8.76.3.2 SRMReturnCode SRMClient::connect (void)

Establish a connection to the service

##### Returns:

SRMReturnCode specifying outcome of operation

#### 8.76.3.3 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. 110), and **SRM22Client** (p. 115).

**8.76.3.4 bool SRMClient::disconnect (void) [inline]**

Disconnect from the service and destroy the connection

References cssoap.

**8.76.3.5 static SRMClient\* SRMClient::getInstance (const Arc::UserConfig & usercfg, std::string url, bool & timedout, time\_t timeout = 300) [static]**

Returns an **SRMClient** (p. 118) instance with the required protocol version. This must be used to create **SRMClient** (p. 118) 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.

**8.76.3.6 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. 110), and **SRM22Client** (p. 115).

**8.76.3.7 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. 110), and **SRM22Client** (p. 116).

**8.76.3.8 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. 121) 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. 111), and **SRM22Client** (p. 116).

**8.76.3.9 std::string SRMClient::getVersion () const [inline]**

Returns the version of the SRM protocol used by this instance

References version.

**8.76.3.10 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. 129)

Implemented in **SRM1Client** (p. 111), and **SRM22Client** (p. 116).

### 8.76.3.11 `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. 111), and **SRM22Client** (p. 116).

### 8.76.3.12 `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 suppresses 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. 112), and **SRM22Client** (p. 116).

### 8.76.3.13 `virtual SRMReturnCode SRMClient::putURLs (SRMClientRequest & req, std::list< std::string > & urls, unsigned long long size = 0) [pure virtual]`

If the user wishes to copy a file to somewhere, **putURLs()** (p. 122) 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. 112), and **SRM22Client** (p. 116).



**8.76.3.14 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. 112), and **SRM22Client** (p. 116).

**8.76.3.15 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. 113), and **SRM22Client** (p. 117).

**8.76.3.16 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. 113), and **SRM22Client** (p. 117).

**8.76.3.17 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. 113), and **SRM22Client** (p. 117).

### 8.76.3.18 **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. 124) 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. 113), and **SRM22Client** (p. 117).

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

Query the status of a request to bring files online. The URLs 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. 114), and **SRM22Client** (p. 117).

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

set the request timeout

References request\_timeout.

## 8.76.4 Field Documentation

### 8.76.4.1 **Arc::HTTPSClientSOAP\* SRMClient::csoap [protected]**

SOAP client object

Referenced by disconnect().

**8.76.4.2 SRMImplementation SRMClient::implementation [protected]**

The implementation of the server

**8.76.4.3 Arc::Logger SRMClient::logger [static, protected]**

Logger

**8.76.4.4 time\_t SRMClient::request\_timeout [static, protected]**

Timeout for requests to the SRM service

Referenced by Timeout().

**8.76.4.5 std::string SRMClient::service\_endpoint [protected]**

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

**8.76.4.6 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

## 8.77 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)

### 8.77.1 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().

### 8.77.2 Constructor & Destructor Documentation

#### 8.77.2.1 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

#### 8.77.2.2 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

### 8.77.3 Member Function Documentation

#### 8.77.3.1 void SRMClientRequest::file\_ids (const std::list< int > &ids) [inline]

set and get file id list

#### 8.77.3.2 void SRMClientRequest::finished\_success () [inline]

set and get status of request

**8.77.3.3 void SRMClientRequest::long\_list (bool *list*) [inline]**

set and get long list flag

**8.77.3.4 void SRMClientRequest::request\_id (int *id*) [inline]**

set and get request id

**8.77.3.5 void SRMClientRequest::request\_token (char \* *token*) [inline]**

set and get request token

**8.77.3.6 void SRMClientRequest::space\_token (const std::string & *token*) [inline]**

set and get space token

**8.77.3.7 void SRMClientRequest::surl\_failures (const std::string & *surl*, const std::string & *reason*) [inline]**

set and get surl failures

**8.77.3.8 void SRMClientRequest::surl\_statuses (const std::string & *surl*, SRMFileLocality *locality*) [inline]**

set and get surl statuses

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

get URLs

**8.77.3.10 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

## 8.78 SRMFileInfo Class Reference

```
#include <SRMInfo.h>
```

### 8.78.1 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

## 8.79 SRMFileMetaData Struct Reference

```
#include <SRMClient.h>
```

### 8.79.1 Detailed Description

File metadata

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

- SRMClient.h

## 8.80 SRMInfo Class Reference

```
#include <SRMInfo.h>
```

### 8.80.1 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



## 8.81 SRMInvalidRequestException Class Reference

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

- SRMClient.h

## 8.82 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

## 8.83 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

## 8.84 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** ()

### 8.84.1 Constructor & Destructor Documentation

#### 8.84.1.1 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

### 8.84.2 Member Function Documentation

#### 8.84.2.1 std::string SRMURL::BaseURL (void) const

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

#### 8.84.2.2 std::string SRMURL::ContactURL (void) const

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

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

eg /srm/managerv2

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

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

#### 8.84.2.5 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

#### 8.84.2.6 bool SRMURL::PortDefined () [inline]

Was the port number given in the constructor?

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

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

**8.84.2.8 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

## 8.85 SRMv1Meth\_\_advisoryDeleteResponse Struct Reference

Operation response struct "SRMv1Meth\_\_advisoryDeleteResponse" of service binding "ISRM" operation "SRMv1Meth\_\_advisoryDelete".

```
#include <srml_soap.h>
```

### 8.85.1 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:

- srml\_soap.h



## 8.86 SRMv1Meth\_\_copyResponse Struct Reference

Operation response struct "SRMv1Meth\_\_copyResponse" of service binding "ISRM" operation "SRMv1Meth\_\_copy".

```
#include <srml_soap.h>
```

### 8.86.1 Detailed Description

Operation response struct "SRMv1Meth\_\_copyResponse" of service binding "ISRM" operation "SRMv1Meth\_\_copy".

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

- srml\_soap.h

## 8.87 SRMv1Meth\_\_getEstGetTimeResponse Struct Reference

Operation response struct "SRMv1Meth\_\_getEstGetTimeResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getEstGetTime".

```
#include <srml_soap.h>
```

### 8.87.1 Detailed Description

Operation response struct "SRMv1Meth\_\_getEstGetTimeResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getEstGetTime".

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

- srml\_soap.h

## 8.88 SRMv1Meth\_\_getEstPutTimeResponse Struct Reference

Operation response struct "SRMv1Meth\_\_getEstPutTimeResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getEstPutTime".

```
#include <srml_soap.h>
```

### 8.88.1 Detailed Description

Operation response struct "SRMv1Meth\_\_getEstPutTimeResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getEstPutTime".

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

- srml\_soap.h

## 8.89 SRMv1Meth\_\_getFileMetaDataResponse Struct Reference

Operation response struct "SRMv1Meth\_\_getFileMetaDataResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getFileMetaData".

```
#include <srml_soap.h>
```

### 8.89.1 Detailed Description

Operation response struct "SRMv1Meth\_\_getFileMetaDataResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getFileMetaData".

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

- srml\_soap.h

## 8.90 SRMv1Meth\_\_getProtocolsResponse Struct Reference

Operation response struct "SRMv1Meth\_\_getProtocolsResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getProtocols".

```
#include <srml_soap.h>
```

### 8.90.1 Detailed Description

Operation response struct "SRMv1Meth\_\_getProtocolsResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getProtocols".

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

- srml\_soap.h

## 8.91 SRMv1Meth\_\_getRequestStatusResponse Struct Reference

Operation response struct "SRMv1Meth\_\_getRequestStatusResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getRequestStatus".

```
#include <srml_soap.h>
```

### 8.91.1 Detailed Description

Operation response struct "SRMv1Meth\_\_getRequestStatusResponse" of service binding "ISRM" operation "SRMv1Meth\_\_getRequestStatus".

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

- srml\_soap.h

## 8.92 SRMv1Meth\_\_getResponse Struct Reference

Operation response struct "SRMv1Meth\_\_getResponse" of service binding "ISRM" operation "SRMv1Meth\_\_get".

```
#include <srml_soap.h>
```

### 8.92.1 Detailed Description

Operation response struct "SRMv1Meth\_\_getResponse" of service binding "ISRM" operation "SRMv1Meth\_\_get".

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

- srml\_soap.h

## 8.93 SRMv1Meth\_\_mkPermanentResponse Struct Reference

Operation response struct "SRMv1Meth\_\_mkPermanentResponse" of service binding "ISRM" operation "SRMv1Meth\_\_mkPermanent".

```
#include <srml_soap.h>
```

### 8.93.1 Detailed Description

Operation response struct "SRMv1Meth\_\_mkPermanentResponse" of service binding "ISRM" operation "SRMv1Meth\_\_mkPermanent".

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

- srml\_soap.h



## 8.94 SRMv1Meth\_\_pinResponse Struct Reference

Operation response struct "SRMv1Meth\_\_pinResponse" of service binding "ISRM" operation "SRMv1Meth\_\_pin".

```
#include <srml_soap.h>
```

### 8.94.1 Detailed Description

Operation response struct "SRMv1Meth\_\_pinResponse" of service binding "ISRM" operation "SRMv1Meth\_\_pin".

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

- srml\_soap.h

## 8.95 SRMv1Meth\_\_putResponse Struct Reference

Operation response struct "SRMv1Meth\_\_putResponse" of service binding "ISRM" operation "SRMv1Meth\_\_put".

```
#include <srml_soap.h>
```

### 8.95.1 Detailed Description

Operation response struct "SRMv1Meth\_\_putResponse" of service binding "ISRM" operation "SRMv1Meth\_\_put".

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

- srml\_soap.h

## 8.96 SRMv1Meth\_\_setFileStatusResponse Struct Reference

Operation response struct "SRMv1Meth\_\_setFileStatusResponse" of service binding "ISRM" operation "SRMv1Meth\_\_setFileStatus".

```
#include <srml_soap.h>
```

### 8.96.1 Detailed Description

Operation response struct "SRMv1Meth\_\_setFileStatusResponse" of service binding "ISRM" operation "SRMv1Meth\_\_setFileStatus".

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

- srml\_soap.h

## 8.97 SRMv1Meth\_\_unPinResponse Struct Reference

Operation response struct "SRMv1Meth\_\_unPinResponse" of service binding "ISRM" operation "SRMv1Meth\_\_unPin".

```
#include <srml_soap.h>
```

### 8.97.1 Detailed Description

Operation response struct "SRMv1Meth\_\_unPinResponse" of service binding "ISRM" operation "SRMv1Meth\_\_unPin".

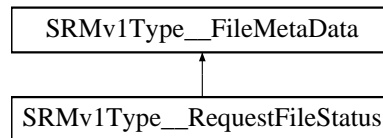
The documentation for this struct was generated from the following file:

- srml\_soap.h

## 8.98 SRMv1Type\_\_FileMetaData Class Reference

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

#include <srml\_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**

### 8.98.1 Detailed Description

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

### 8.98.2 Field Documentation

#### 8.98.2.1 char\* SRMv1Type\_\_FileMetaData::checksumType

Element checksumType of type xs:string. Nullable pointer.

#### 8.98.2.2 char\* SRMv1Type\_\_FileMetaData::checksumValue

Element checksumValue of type xs:string. Nullable pointer.

#### 8.98.2.3 char\* SRMv1Type\_\_FileMetaData::group

Element group of type xs:string. Nullable pointer.

#### 8.98.2.4 bool SRMv1Type\_\_FileMetaData::isCached

Element isCached of type xs:boolean. Required element.

**8.98.2.5 bool SRMv1Type\_\_FileMetaData::isPermanent**

Element isPermanent of type xs:boolean. Required element.

**8.98.2.6 bool SRMv1Type\_\_FileMetaData::isPinned**

Element isPinned of type xs:boolean. Required element.

**8.98.2.7 char\* SRMv1Type\_\_FileMetaData::owner**

Element owner of type xs:string. Nullable pointer.

**8.98.2.8 int SRMv1Type\_\_FileMetaData::permMode**

Element permMode of type xs:int. Required element.

**8.98.2.9 LONG64 SRMv1Type\_\_FileMetaData::size**

Element size of type xs:long. Required element.

**8.98.2.10 char\* SRMv1Type\_\_FileMetaData::SURL**

Element SURL of type xs:string. Nullable pointer.

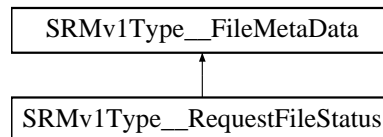
The documentation for this class was generated from the following file:

- srm1\_soap.h

## 8.99 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 <srml\_soap.h>Inheritance diagram for SRMv1Type\_\_RequestFileStatus::



### Data Fields

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

### 8.99.1 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.

### 8.99.2 Field Documentation

#### 8.99.2.1 char\* SRMv1Type\_\_RequestFileStatus::destFilename

Element destFilename of type xs:string. Nullable pointer.

#### 8.99.2.2 int SRMv1Type\_\_RequestFileStatus::estSecondsToStart

Element estSecondsToStart of type xs:int. Required element.

#### 8.99.2.3 int SRMv1Type\_\_RequestFileStatus::fileId

Element fileId of type xs:int. Required element.

#### 8.99.2.4 int SRMv1Type\_\_RequestFileStatus::queueOrder

Element queueOrder of type xs:int. Required element.

**8.99.2.5 char\* SRMv1Type\_\_RequestFileStatus::sourceFilename**

Element sourceFilename of type xs:string. Nullable pointer.

**8.99.2.6 char\* SRMv1Type\_\_RequestFileStatus::state**

Element state of type xs:string. Nullable pointer.

**8.99.2.7 char\* SRMv1Type\_\_RequestFileStatus::TURL**

Element TURL of type xs:string. Nullable pointer.

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

- srm1\_soap.h



## 8.100 SRMv1Type\_\_RequestStatus Class Reference

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

```
#include <srml_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**

### 8.100.1 Detailed Description

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

### 8.100.2 Field Documentation

#### 8.100.2.1 char\* SRMv1Type\_\_RequestStatus::errorMessage

Element errorMessage of type xs:string. Nullable pointer.

#### 8.100.2.2 int SRMv1Type\_\_RequestStatus::estTimeToStart

Element estTimeToStart of type xs:int. Required element.

#### 8.100.2.3 ArrayOfRequestFileStatus\* SRMv1Type\_\_RequestStatus::fileStatuses

Element fileStatuses of type "http://www.themindelectric.com/package/diskCacheV111.srm/":**ArrayOfRequestFileStatus** (p. 48). Nullable pointer.

#### 8.100.2.4 time\_t\* SRMv1Type\_\_RequestStatus::finishTime

Element finishTime of type xs:dateTime. Nullable pointer.

#### 8.100.2.5 int SRMv1Type\_\_RequestStatus::requestId

Element requestId of type xs:int. Required element.

**8.100.2.6 int SRMv1Type\_\_RequestStatus::retryDeltaTime**

Element retryDeltaTime of type xs:int. Required element.

**8.100.2.7 time\_t\* SRMv1Type\_\_RequestStatus::startTime**

Element startTime of type xs:dateTime. Nullable pointer.

**8.100.2.8 char\* SRMv1Type\_\_RequestStatus::state**

Element state of type xs:string. Nullable pointer.

**8.100.2.9 time\_t\* SRMv1Type\_\_RequestStatus::submitTime**

Element submitTime of type xs:dateTime. Nullable pointer.

**8.100.2.10 char\* SRMv1Type\_\_RequestStatus::type**

Element type of type xs:string. Nullable pointer.

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

- srm1\_soap.h

## 8.101 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**

### 8.101.1 Detailed Description

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

### 8.101.2 Field Documentation

#### 8.101.2.1 xsd\_\_anyURI\* SRMv2\_\_ArrayOfAnyURI::urlArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.102 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**

### 8.102.1 Detailed Description

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

### 8.102.2 Field Documentation

#### 8.102.2.1 char\* \* SRMv2\_\_ArrayOfString::stringArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.103 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

#### 8.103.1 Detailed Description

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

#### 8.103.2 Field Documentation

##### 8.103.2.1 SRMv2\_\_TBringOnlineRequestFileStatus\* \* SRMv2\_\_ArrayOfTBringOnlineRequestFileStatus::statusArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.104 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

### 8.104.1 Detailed Description

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

### 8.104.2 Field Documentation

#### 8.104.2.1 SRMv2\_\_TCopyFileRequest\* \* SRMv2\_\_ArrayOfTCopyFileRequest::requestArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.105 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`

### 8.105.1 Detailed Description

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

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

- `srm2_2_soap.h`

## 8.106 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

### 8.106.1 Detailed Description

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

### 8.106.2 Field Documentation

#### 8.106.2.1 SRMv2\_\_TExtraInfo\* \* SRMv2\_\_ArrayOfTExtraInfo::extraInfoArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h



## 8.107 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

### 8.107.1 Detailed Description

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

### 8.107.2 Field Documentation

#### 8.107.2.1 SRMv2\_\_TGetFileRequest\* \* SRMv2\_\_ArrayOfTGetFileRequest::requestArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.108 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

### 8.108.1 Detailed Description

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

### 8.108.2 Field Documentation

#### 8.108.2.1 SRMv2\_\_TGetRequestFileStatus\* \* SRMv2\_\_ - ArrayOfTGetRequestFileStatus::statusArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.109 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

### 8.109.1 Detailed Description

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

### 8.109.2 Field Documentation

#### 8.109.2.1 SRMv2\_\_TGroupPermission\* \* SRMv2\_\_ - ArrayOfTGroupPermission::groupPermissionArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.110 SRMv2\_\_ArrayOfTMetaPathDetail Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- int \_\_sizepathDetailArray
- SRMv2\_\_TMetaPathDetail \*\* pathDetailArray
- struct soap \* soap

### 8.110.1 Detailed Description

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

### 8.110.2 Field Documentation

#### 8.110.2.1 SRMv2\_\_TMetaPathDetail\* \* SRMv2\_\_ - ArrayOfTMetaPathDetail::pathDetailArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.111 SRMv2\_\_ArrayOfTMetaDataSet Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- int \_\_sizeDataSetArray
- SRMv2\_\_TMetaDataSet \*\* dataSetArray
- struct soap \* soap

### 8.111.1 Detailed Description

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

### 8.111.2 Field Documentation

#### 8.111.2.1 SRMv2\_\_TMetaDataSet\* \* SRMv2\_\_ArrayOfTMetaDataSet::dataSetArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.112 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

### 8.112.1 Detailed Description

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

### 8.112.2 Field Documentation

#### 8.112.2.1 SRMv2\_\_TPermissionReturn\* \* SRMv2\_\_ - ArrayOfTPermissionReturn::permissionArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.113 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

### 8.113.1 Detailed Description

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

### 8.113.2 Field Documentation

#### 8.113.2.1 SRMv2\_\_TPutFileRequest\* \* SRMv2\_\_ArrayOfTPutFileRequest::requestArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.114 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

### 8.114.1 Detailed Description

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

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

- srm2\_2\_soap.h



## 8.115 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`

### 8.115.1 Detailed Description

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

### 8.115.2 Field Documentation

#### 8.115.2.1 SRMv2\_\_TRequestSummary\* \* SRMv2\_\_ArrayOfTRequestSummary::summaryArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- `srm2_2_soap.h`

## 8.116 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

### 8.116.1 Detailed Description

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

### 8.116.2 Field Documentation

#### 8.116.2.1 SRMv2\_\_TRequestTokenReturn\* \* SRMv2\_\_ - ArrayOfTRequestTokenReturn::tokenArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.117 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

#### 8.117.1 Detailed Description

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

#### 8.117.2 Field Documentation

##### 8.117.2.1 SRMv2\_\_TSupportedTransferProtocol\* \* SRMv2\_\_ArrayOfTSupportedTransferProtocol::protocolArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.118 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

### 8.118.1 Detailed Description

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

### 8.118.2 Field Documentation

#### 8.118.2.1 SRMv2\_\_TSURLLifetimeReturnStatus\* \* SRMv2\_\_ArrayOfTSURLLifetimeReturnStatus::statusArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.119 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

### 8.119.1 Detailed Description

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

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

- srm2\_2\_soap.h

## 8.120 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

### 8.120.1 Detailed Description

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

### 8.120.2 Field Documentation

#### 8.120.2.1 SRMv2\_\_TSURLReturnStatus\* \* SRMv2\_\_ArrayOfTSURLReturnStatus::statusArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.121 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

### 8.121.1 Detailed Description

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

### 8.121.2 Field Documentation

#### 8.121.2.1 SRMv2\_\_TUserPermission\* \* SRMv2\_\_ - ArrayOfTUserPermission::userPermissionArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.122 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**

### 8.122.1 Detailed Description

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

### 8.122.2 Field Documentation

#### 8.122.2.1 ULONG64\* SRMv2\_\_ArrayOfUnsignedLong::unsignedLongArray

Pointer to array of length 1..unbounded. Nullable pointer.

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

- srm2\_2\_soap.h



## 8.123 SRMv2\_\_srmAbortFilesRequest Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- char \* **requestToken**
- SRMv2\_\_ArrayOfAnyURI \* **arrayOfURLs**
- char \* **authorizationID**
- struct soap \* **soap**

### 8.123.1 Detailed Description

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

### 8.123.2 Field Documentation

#### 8.123.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmAbortFilesRequest::arrayOfURLs

Element arrayOfURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Required element.

#### 8.123.2.2 char\* SRMv2\_\_srmAbortFilesRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.123.2.3 char\* SRMv2\_\_srmAbortFilesRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.124 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**

### 8.124.1 Detailed Description

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

### 8.124.2 Field Documentation

#### 8.124.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_ - srmAbortFilesResponse::arrayOfFileStatuses

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

#### 8.124.2.2 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 file:

- srm2\_2\_soap.h

## 8.125 SRMv2\_\_srmAbortFilesResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmAbortFilesResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmAbortFiles".

```
#include <srm2_2_soap.h>
```

### 8.125.1 Detailed Description

Operation response struct "SRMv2\_\_srmAbortFilesResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmAbortFiles".

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

- srm2\_2\_soap.h

## 8.126 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**

### 8.126.1 Detailed Description

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

### 8.126.2 Field Documentation

#### 8.126.2.1 char\* SRMv2\_\_srmAbortRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.126.2.2 char\* SRMv2\_\_srmAbortRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.127 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**

### 8.127.1 Detailed Description

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

### 8.127.2 Field Documentation

#### 8.127.2.1 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 file:

- srm2\_2\_soap.h

## 8.128 SRMv2\_\_srmAbortRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmAbortRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmAbortRequest".

```
#include <srm2_2_soap.h>
```

### 8.128.1 Detailed Description

Operation response struct "SRMv2\_\_srmAbortRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmAbortRequest".

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

- srm2\_2\_soap.h

## 8.129 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**

### 8.129.1 Detailed Description

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

### 8.129.2 Field Documentation

#### 8.129.2.1 SRMv2\_\_ArrayOfTGetFileRequest\* SRMv2\_\_-srmBringOnlineRequest::arrayOfFileRequests

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

#### 8.129.2.2 char\* SRMv2\_\_srmBringOnlineRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.129.2.3 enum SRMv2\_\_TFileStorageType\* desiredFileStorageType int\* desiredTotalRequestTime int\* desiredLifeTime char\* targetSpaceToken SRMv2\_\_TRetentionPolicyInfo\* targetFileRetentionPolicyInfo SRMv2\_\_TTransferParameters\* transferParameters int\* deferredStartTime struct soap\* SRMv2\_\_srmBringOnlineRequest::soap

Element desiredFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType. Nullable pointer. Element desiredTotalRequestTime of type xs:int. Nullable pointer. Element desiredLifeTime of type xs:int. Nullable pointer. Element targetSpaceToken of type xs:string. Nullable pointer. Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer. Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters. Nullable pointer. Element deferredStartTime of type xs:int. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

**8.129.2.4 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmBringOnlineRequest::storageSystemInfo**

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

**8.129.2.5 char\* SRMv2\_\_srmBringOnlineRequest::userRequestDescription**

Element userRequestDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h



## 8.130 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**

### 8.130.1 Detailed Description

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

### 8.130.2 Field Documentation

#### 8.130.2.1 SRMv2\_\_ArrayOfTBringOnlineRequestFileStatus\* SRMv2\_\_srmBringOnlineResponse::arrayOfFileStatuses

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

#### 8.130.2.2 int\* SRMv2\_\_srmBringOnlineResponse::remainingDeferredStartTime

Element remainingDeferredStartTime of type xs:int. Nullable pointer.

#### 8.130.2.3 int\* SRMv2\_\_srmBringOnlineResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.130.2.4 char\* SRMv2\_\_srmBringOnlineResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.130.2.5 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 file:

- srm2\_2\_soap.h

## 8.131 SRMv2\_\_srmBringOnlineResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmBringOnlineResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmBringOnline".

```
#include <srm2_2_soap.h>
```

### 8.131.1 Detailed Description

Operation response struct "SRMv2\_\_srmBringOnlineResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmBringOnline".

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

- srm2\_2\_soap.h

## 8.132 SRMv2\_\_srmChangeSpaceForFilesRequest Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- char \* **authorizationID**
- SRMv2\_\_ArrayOfAnyURI \* **arrayOfURLs**
- char \* **targetSpaceToken**
- SRMv2\_\_ArrayOfTExtraInfo \* **storageSystemInfo**
- struct soap \* **soap**

### 8.132.1 Detailed Description

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

### 8.132.2 Field Documentation

#### 8.132.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_-srmChangeSpaceForFilesRequest::arrayOfURLs

Element arrayOfURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Required element.

#### 8.132.2.2 char\* SRMv2\_\_srmChangeSpaceForFilesRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.132.2.3 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_-srmChangeSpaceForFilesRequest::storageSystemInfo

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

#### 8.132.2.4 char\* SRMv2\_\_srmChangeSpaceForFilesRequest::targetSpaceToken

Element targetSpaceToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.133 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**

### 8.133.1 Detailed Description

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

### 8.133.2 Field Documentation

#### 8.133.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_srmChangeSpaceForFilesResponse::arrayOfFileStatuses

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

#### 8.133.2.2 int\* SRMv2\_\_srmChangeSpaceForFilesResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int. Nullable pointer.

#### 8.133.2.3 char\* SRMv2\_\_srmChangeSpaceForFilesResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.133.2.4 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 file:

- srm2\_2\_soap.h

## 8.134 SRMv2\_\_srmChangeSpaceForFilesResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmChangeSpaceForFilesResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmChangeSpaceForFiles".

```
#include <srm2_2_soap.h>
```

### 8.134.1 Detailed Description

Operation response struct "SRMv2\_\_srmChangeSpaceForFilesResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmChangeSpaceForFiles".

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

- srm2\_2\_soap.h

## 8.135 SRMv2\_\_srmCheckPermissionRequest Class Reference

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

#include <srm2\_2\_soap.h>

### Data Fields

- SRMv2\_\_ArrayOfAnyURI \* arrayOfURLs
- char \* authorizationID
- SRMv2\_\_ArrayOfTExtraInfo \* storageSystemInfo
- struct soap \* soap

### 8.135.1 Detailed Description

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

### 8.135.2 Field Documentation

#### 8.135.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmCheckPermissionRequest::arrayOfURLs

Element arrayOfURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Required element.

#### 8.135.2.2 char\* SRMv2\_\_srmCheckPermissionRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.135.2.3 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 file:

- srm2\_2\_soap.h

## 8.136 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**

### 8.136.1 Detailed Description

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

### 8.136.2 Field Documentation

#### 8.136.2.1 SRMv2\_\_ArrayOfTSURLPermissionReturn\* SRMv2\_\_ - srmCheckPermissionResponse::arrayOfPermissions

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

#### 8.136.2.2 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 file:

- srm2\_2\_soap.h

## 8.137 SRMv2\_\_srmCheckPermissionResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmCheckPermissionResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmCheckPermission".

```
#include <srm2_2_soap.h>
```

### 8.137.1 Detailed Description

Operation response struct "SRMv2\_\_srmCheckPermissionResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmCheckPermission".

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

- srm2\_2\_soap.h



## 8.138 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**

### 8.138.1 Detailed Description

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

### 8.138.2 Field Documentation

#### 8.138.2.1 SRMv2\_\_ArrayOfTCopyFileRequest\* SRMv2\_\_srmCopyRequest::arrayOfFileRequests

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

#### 8.138.2.2 char\* SRMv2\_\_srmCopyRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.138.2.3 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\* SRMv2\_\_srmCopyRequest::soap

Element **overwriteOption** of type "http://srm.lbl.gov/StorageResourceManager":TOverwriteMode. Nullable pointer. Element **desiredTotalRequestTime** of type xs:int. Nullable pointer. Element **desiredTargetSURLLifeTime** of type xs:int. Nullable pointer. Element **targetFileStorageType** of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType. Nullable pointer. Element **targetSpaceToken** of type xs:string. Nullable pointer. Element **targetFileRetentionPolicyInfo** of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer. Element **sourceStorageSystemInfo** of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer. Element **targetStorageSystemInfo** of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

**8.138.2.4 char\* SRMv2\_\_srmCopyRequest::userRequestDescription**

Element userRequestDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.139 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**

### 8.139.1 Detailed Description

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

### 8.139.2 Field Documentation

#### 8.139.2.1 SRMv2\_\_ArrayOfTCopyRequestFileStatus\* SRMv2\_\_srmCopyResponse::arrayOfFileStatuses

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

#### 8.139.2.2 int\* SRMv2\_\_srmCopyResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.139.2.3 char\* SRMv2\_\_srmCopyResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.139.2.4 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 file:

- srm2\_2\_soap.h

## 8.140 SRMv2\_\_srmCopyResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmCopyResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmCopy".

```
#include <srm2_2_soap.h>
```

### 8.140.1 Detailed Description

Operation response struct "SRMv2\_\_srmCopyResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmCopy".

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

- srm2\_2\_soap.h

## 8.141 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 \* **arrayOfURLs**
- int \* **newLifeTime**
- struct soap \* **soap**

#### 8.141.1 Detailed Description

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

#### 8.141.2 Field Documentation

##### 8.141.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest::arrayOfURLs

Element arrayOfURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Nullable pointer.

##### 8.141.2.2 char\* SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

##### 8.141.2.3 int\* SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest::newLifeTime

Element newLifeTime of type xs:int. Nullable pointer.

##### 8.141.2.4 char\* SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest::spaceToken

Element spaceToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.142 SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceResponse is a complex-Type.

```
#include <srm2_2_soap.h>
```

### Data Fields

- SRMv2\_\_TReturnStatus \* returnStatus
- SRMv2\_\_ArrayOfTSURLLifetimeReturnStatus \* arrayOfFileStatuses
- struct soap \* soap

### 8.142.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmExtendFileLifeTimeInSpaceResponse is a complex-Type.

### 8.142.2 Field Documentation

#### 8.142.2.1 SRMv2\_\_ArrayOfTSURLLifetimeReturnStatus\* SRMv2\_\_-srmExtendFileLifeTimeInSpaceResponse::arrayOfFileStatuses

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

#### 8.142.2.2 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 file:

- srm2\_2\_soap.h

## 8.143 SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse\_" of service binding "srm-SoapBinding" operation "SRMv2\_\_srmExtendFileLifeTimeInSpace".

```
#include <srm2_2_soap.h>
```

### 8.143.1 Detailed Description

Operation response struct "SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse\_" of service binding "srm-SoapBinding" operation "SRMv2\_\_srmExtendFileLifeTimeInSpace".

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

- srm2\_2\_soap.h

## 8.144 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**

### 8.144.1 Detailed Description

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

### 8.144.2 Field Documentation

#### 8.144.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmExtendFileLifeTimeRequest::arrayOfSURLs

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

#### 8.144.2.2 char\* SRMv2\_\_srmExtendFileLifeTimeRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.144.2.3 int\* SRMv2\_\_srmExtendFileLifeTimeRequest::newFileLifeTime

Element newFileLifeTime of type xs:int. Nullable pointer.

#### 8.144.2.4 int\* SRMv2\_\_srmExtendFileLifeTimeRequest::newPinLifeTime

Element newPinLifeTime of type xs:int. Nullable pointer.

#### 8.144.2.5 char\* SRMv2\_\_srmExtendFileLifeTimeRequest::requestToken

Element requestToken of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h



## 8.145 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**

### 8.145.1 Detailed Description

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

### 8.145.2 Field Documentation

#### 8.145.2.1 SRMv2\_\_ArrayOfTSURLLifetimeReturnStatus\* SRMv2\_\_srmExtendFileLifeTimeResponse::arrayOfFileStatuses

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

#### 8.145.2.2 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 file:

- srm2\_2\_soap.h

## 8.146 SRMv2\_\_srmExtendFileLifeTimeResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmExtendFileLifeTimeResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmExtendFileLifeTime".

```
#include <srm2_2_soap.h>
```

### 8.146.1 Detailed Description

Operation response struct "SRMv2\_\_srmExtendFileLifeTimeResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmExtendFileLifeTime".

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

- srm2\_2\_soap.h

## 8.147 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**

### 8.147.1 Detailed Description

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

### 8.147.2 Field Documentation

#### 8.147.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmGetPermissionRequest::arrayOfSURLs

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

#### 8.147.2.2 char\* SRMv2\_\_srmGetPermissionRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.147.2.3 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 file:

- srm2\_2\_soap.h

## 8.148 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**

### 8.148.1 Detailed Description

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

### 8.148.2 Field Documentation

#### 8.148.2.1 SRMv2\_\_ArrayOfTPermissionReturn\* SRMv2\_\_ - srmGetPermissionResponse::arrayOfPermissionReturns

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

#### 8.148.2.2 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 file:

- srm2\_2\_soap.h

## 8.149 SRMv2\_\_srmGetPermissionResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmGetPermissionResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmGetPermission".

```
#include <srm2_2_soap.h>
```

### 8.149.1 Detailed Description

Operation response struct "SRMv2\_\_srmGetPermissionResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmGetPermission".

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

- srm2\_2\_soap.h

## 8.150 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**

### 8.150.1 Detailed Description

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

### 8.150.2 Field Documentation

#### 8.150.2.1 SRMv2\_\_ArrayOfString\* SRMv2\_\_- srmGetRequestSummaryRequest::arrayOfRequestTokens

Element arrayOfRequestTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString. Required element.

#### 8.150.2.2 char\* SRMv2\_\_srmGetRequestSummaryRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.151 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

### 8.151.1 Detailed Description

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

### 8.151.2 Field Documentation

#### 8.151.2.1 SRMv2\_\_ArrayOfTRequestSummary\* SRMv2\_\_ - srmGetRequestSummaryResponse::arrayOfRequestSummaries

Element arrayOfRequestSummaries of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestSummary. Nullable pointer.

#### 8.151.2.2 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 file:

- srm2\_2\_soap.h

## 8.152 SRMv2\_\_srmGetRequestSummaryResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmGetRequestSummaryResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmGetRequestSummary".

```
#include <srm2_2_soap.h>
```

### 8.152.1 Detailed Description

Operation response struct "SRMv2\_\_srmGetRequestSummaryResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmGetRequestSummary".

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

- srm2\_2\_soap.h



## 8.153 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**

### 8.153.1 Detailed Description

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

### 8.153.2 Field Documentation

#### 8.153.2.1 char\* SRMv2\_\_srmGetRequestTokensRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.153.2.2 char\* SRMv2\_\_srmGetRequestTokensRequest::userRequestDescription

Element userRequestDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.154 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**

### 8.154.1 Detailed Description

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

### 8.154.2 Field Documentation

#### 8.154.2.1 SRMv2\_\_ArrayOfTRequestTokenReturn\* SRMv2\_\_-srmGetRequestTokensResponse::arrayOfRequestTokens

Element arrayOfRequestTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTRequestTokenReturn. Nullable pointer.

#### 8.154.2.2 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 file:

- srm2\_2\_soap.h

## 8.155 SRMv2\_\_srmGetRequestTokensResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmGetRequestTokensResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmGetRequestTokens".

```
#include <srm2_2_soap.h>
```

### 8.155.1 Detailed Description

Operation response struct "SRMv2\_\_srmGetRequestTokensResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmGetRequestTokens".

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

- srm2\_2\_soap.h

## 8.156 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**

### 8.156.1 Detailed Description

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

### 8.156.2 Field Documentation

#### 8.156.2.1 SRMv2\_\_ArrayOfString\* SRMv2\_\_- srmGetSpaceMetaDataRequest::arrayOfSpaceTokens

Element arrayOfSpaceTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString. Required element.

#### 8.156.2.2 char\* SRMv2\_\_srmGetSpaceMetaDataRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.157 SRMv2\_\_srmGetSpaceMetaDataResponse Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- SRMv2\_\_TReturnStatus \* **returnStatus**
- SRMv2\_\_ArrayOfTMetaDataSet \* **arrayOfSpaceDetails**
- struct soap \* **soap**

### 8.157.1 Detailed Description

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

### 8.157.2 Field Documentation

#### 8.157.2.1 SRMv2\_\_ArrayOfTMetaDataSet\* SRMv2\_\_ - srmGetSpaceMetaDataResponse::arrayOfSpaceDetails

Element arrayOfSpaceDetails of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataSet. Nullable pointer.

#### 8.157.2.2 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 file:

- srm2\_2\_soap.h

## 8.158 SRMv2\_\_srmGetSpaceMetaDataResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmGetSpaceMetaDataResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmGetSpaceMetaData".

```
#include <srm2_2_soap.h>
```

### 8.158.1 Detailed Description

Operation response struct "SRMv2\_\_srmGetSpaceMetaDataResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmGetSpaceMetaData".

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

- srm2\_2\_soap.h

## 8.159 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**

### 8.159.1 Detailed Description

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

### 8.159.2 Field Documentation

#### 8.159.2.1 char\* SRMv2\_\_srmGetSpaceTokensRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.159.2.2 char\* SRMv2\_\_srmGetSpaceTokensRequest::userSpaceTokenDescription

Element userSpaceTokenDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.160 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**

### 8.160.1 Detailed Description

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

### 8.160.2 Field Documentation

#### 8.160.2.1 SRMv2\_\_ArrayOfString\* SRMv2\_\_ - srmGetSpaceTokensResponse::arrayOfSpaceTokens

Element arrayOfSpaceTokens of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString. Nul-  
lable pointer.

#### 8.160.2.2 SRMv2\_\_TReturnStatus\* SRMv2\_\_srmGetSpaceTokensResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required ele-  
ment.

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

- srm2\_2\_soap.h



## 8.161 SRMv2\_\_srmGetSpaceTokensResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmGetSpaceTokensResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmGetSpaceTokens".

```
#include <srm2_2_soap.h>
```

### 8.161.1 Detailed Description

Operation response struct "SRMv2\_\_srmGetSpaceTokensResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmGetSpaceTokens".

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

- srm2\_2\_soap.h

## 8.162 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

### 8.162.1 Detailed Description

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

### 8.162.2 Field Documentation

#### 8.162.2.1 char\* SRMv2\_\_srmGetTransferProtocolsRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.163 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

### 8.163.1 Detailed Description

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

### 8.163.2 Field Documentation

#### 8.163.2.1 SRMv2\_\_ArrayOfTSupportedTransferProtocol\* SRMv2\_\_srmGetTransferProtocolsResponse::protocolInfo

Element protocolInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTSupportedTransferProtocol. Nullable pointer.

#### 8.163.2.2 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 file:

- srm2\_2\_soap.h

## 8.164 SRMv2\_\_srmGetTransferProtocolsResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmGetTransferProtocolsResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmGetTransferProtocols".

```
#include <srm2_2_soap.h>
```

### 8.164.1 Detailed Description

Operation response struct "SRMv2\_\_srmGetTransferProtocolsResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmGetTransferProtocols".

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

- srm2\_2\_soap.h

## 8.165 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**

### 8.165.1 Detailed Description

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

### 8.165.2 Field Documentation

#### 8.165.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmLsRequest::arrayOfSURLs

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

#### 8.165.2.2 char\* SRMv2\_\_srmLsRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.165.2.3 enum SRMv2\_\_TFileStorageType\* fileStorageType bool\* fullDetailedList bool\* allLevelRecursive int\* numOfLevels int\* offset int\* count struct soap\* SRMv2\_\_srmLsRequest::soap

Element fileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType. Nullable pointer. Element fullDetailedList of type xs:boolean. Nullable pointer. Element allLevelRecursive of type xs:boolean. Nullable pointer. Element numOfLevels of type xs:int. Nullable pointer. Element offset of type xs:int. Nullable pointer. Element count of type xs:int. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

#### 8.165.2.4 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 file:

- srm2\_2\_soap.h

## 8.166 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**

### 8.166.1 Detailed Description

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

### 8.166.2 Field Documentation

#### 8.166.2.1 SRMv2\_\_ArrayOfTMetaDataPathDetail\* SRMv2\_\_srmLsResponse::details

Element details of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail. Nullable pointer.

#### 8.166.2.2 char\* SRMv2\_\_srmLsResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.166.2.3 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 file:

- srm2\_2\_soap.h

## 8.167 SRMv2\_\_srmLsResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmLsResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmLs".

```
#include <srm2_2_soap.h>
```

### 8.167.1 Detailed Description

Operation response struct "SRMv2\_\_srmLsResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmLs".

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

- srm2\_2\_soap.h

## 8.168 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**

### 8.168.1 Detailed Description

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

### 8.168.2 Field Documentation

#### 8.168.2.1 char\* SRMv2\_\_srmMkdirRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.168.2.2 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmMkdirRequest::storageSystemInfo

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

#### 8.168.2.3 xsd\_\_anyURI SRMv2\_\_srmMkdirRequest::SURL

Element SURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h



## 8.169 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**

### 8.169.1 Detailed Description

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

### 8.169.2 Field Documentation

#### 8.169.2.1 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 file:

- srm2\_2\_soap.h

## 8.170 SRMv2\_\_srmMkdirResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmMkdirResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmMkdir".

```
#include <srm2_2_soap.h>
```

### 8.170.1 Detailed Description

Operation response struct "SRMv2\_\_srmMkdirResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmMkdir".

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

- srm2\_2\_soap.h

## 8.171 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**

### 8.171.1 Detailed Description

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

### 8.171.2 Field Documentation

#### 8.171.2.1 char\* SRMv2\_\_srmMvRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.171.2.2 xsd\_\_anyURI SRMv2\_\_srmMvRequest::fromSURL

Element fromSURL of type xs:anyURI. Required element.

#### 8.171.2.3 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmMvRequest::storageSystemInfo

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

#### 8.171.2.4 xsd\_\_anyURI SRMv2\_\_srmMvRequest::toSURL

Element toSURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.172 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**

### 8.172.1 Detailed Description

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

### 8.172.2 Field Documentation

#### 8.172.2.1 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 file:

- srm2\_2\_soap.h

## 8.173 SRMv2\_\_srmMvResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmMvResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmMv".

```
#include <srm2_2_soap.h>
```

### 8.173.1 Detailed Description

Operation response struct "SRMv2\_\_srmMvResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmMv".

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

- srm2\_2\_soap.h

## 8.174 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**

### 8.174.1 Detailed Description

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

### 8.174.2 Field Documentation

#### 8.174.2.1 char\* SRMv2\_\_srmPingRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.175 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**

### 8.175.1 Detailed Description

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

### 8.175.2 Field Documentation

#### 8.175.2.1 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmPingResponse::otherInfo

Element otherInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer.

#### 8.175.2.2 char\* SRMv2\_\_srmPingResponse::versionInfo

Element versionInfo of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.176 SRMv2\_\_srmPingResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmPingResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPing".

```
#include <srm2_2_soap.h>
```

### 8.176.1 Detailed Description

Operation response struct "SRMv2\_\_srmPingResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPing".

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

- srm2\_2\_soap.h



## 8.177 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

### 8.177.1 Detailed Description

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

### 8.177.2 Field Documentation

#### 8.177.2.1 SRMv2\_\_ArrayOfTGetFileRequest\* SRMv2\_\_-srmPrepareToGetRequest::arrayOfFileRequests

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

#### 8.177.2.2 char\* SRMv2\_\_srmPrepareToGetRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.177.2.3 enum SRMv2\_\_TFileStorageType\* desiredFileStorageType int\* desiredTotalRequestTime int\* desiredPinLifeTime char\* targetSpaceToken SRMv2\_\_TRetentionPolicyInfo\* targetFileRetentionPolicyInfo SRMv2\_\_TTransferParameters\* transferParameters struct soap\* SRMv2\_\_srmPrepareToGetRequest::soap

Element desiredFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType. Nullable pointer. Element desiredTotalRequestTime of type xs:int. Nullable pointer. Element desiredPinLifeTime of type xs:int. Nullable pointer. Element targetSpaceToken of type xs:string. Nullable pointer. Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer. Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

**8.177.2.4 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmPrepareToGetRequest::storageSystemInfo**

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

**8.177.2.5 char\* SRMv2\_\_srmPrepareToGetRequest::userRequestDescription**

Element userRequestDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.178 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**

### 8.178.1 Detailed Description

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

### 8.178.2 Field Documentation

#### 8.178.2.1 SRMv2\_\_ArrayOfTGetRequestFileStatus\* SRMv2\_\_srmPrepareToGetResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus. Nullable pointer.

#### 8.178.2.2 int\* SRMv2\_\_srmPrepareToGetResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.178.2.3 char\* SRMv2\_\_srmPrepareToGetResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.178.2.4 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 file:

- srm2\_2\_soap.h

## 8.179 SRMv2\_\_srmPrepareToGetResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmPrepareToGetResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPrepareToGet".

```
#include <srm2_2_soap.h>
```

### 8.179.1 Detailed Description

Operation response struct "SRMv2\_\_srmPrepareToGetResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPrepareToGet".

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

- srm2\_2\_soap.h

## 8.180 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**

### 8.180.1 Detailed Description

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

### 8.180.2 Field Documentation

#### 8.180.2.1 SRMv2\_\_ArrayOfTPutFileRequest\* SRMv2\_\_srmPrepareToPutRequest::arrayOfFileRequests

Element arrayOfFileRequests of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutFileRequest. Nullable pointer.

#### 8.180.2.2 char\* SRMv2\_\_srmPrepareToPutRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.180.2.3 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\* SRMv2\_\_srmPrepareToPutRequest::soap

Element overwriteOption of type "http://srm.lbl.gov/StorageResourceManager":TOverwriteMode. Nullable pointer. Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer. Element desiredTotalRequestTime of type xs:int. Nullable pointer. Element desiredPinLifeTime of type xs:int. Nullable pointer. Element desiredFileLifeTime of type xs:int. Nullable pointer. Element desiredFileStorageType of type "http://srm.lbl.gov/StorageResourceManager":TFileStorageType. Nullable pointer. Element targetSpaceToken of type xs:string. Nullable pointer. Element targetFileRetentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer. Element transferParameters of type "http://srm.lbl.gov/StorageResourceManager":TTransferParameters. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

**8.180.2.4 char\* SRMv2\_\_srmPrepareToPutRequest::userRequestDescription**

Element userRequestDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.181 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**

### 8.181.1 Detailed Description

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

### 8.181.2 Field Documentation

#### 8.181.2.1 SRMv2\_\_ArrayOfTPutRequestFileStatus\* SRMv2\_\_-srmPrepareToPutResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus. Nullable pointer.

#### 8.181.2.2 int\* SRMv2\_\_srmPrepareToPutResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.181.2.3 char\* SRMv2\_\_srmPrepareToPutResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.181.2.4 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 file:

- srm2\_2\_soap.h

## 8.182 SRMv2\_\_srmPrepareToPutResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmPrepareToPutResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPrepareToPut".

```
#include <srm2_2_soap.h>
```

### 8.182.1 Detailed Description

Operation response struct "SRMv2\_\_srmPrepareToPutResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPrepareToPut".

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

- srm2\_2\_soap.h



## 8.183 SRMv2\_\_srmPurgeFromSpaceRequest Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- char \* **authorizationID**
- SRMv2\_\_ArrayOfAnyURI \* **arrayOfURLs**
- char \* **spaceToken**
- SRMv2\_\_ArrayOfTExtraInfo \* **storageSystemInfo**
- struct soap \* **soap**

### 8.183.1 Detailed Description

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

### 8.183.2 Field Documentation

#### 8.183.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmPurgeFromSpaceRequest::arrayOfURLs

Element arrayOfURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Required element.

#### 8.183.2.2 char\* SRMv2\_\_srmPurgeFromSpaceRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.183.2.3 char\* SRMv2\_\_srmPurgeFromSpaceRequest::spaceToken

Element spaceToken of type xs:string. Required element.

#### 8.183.2.4 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 file:

- srm2\_2\_soap.h

## 8.184 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**

### 8.184.1 Detailed Description

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

### 8.184.2 Field Documentation

#### 8.184.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_srmPurgeFromSpaceResponse::arrayOfFileStatuses

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

#### 8.184.2.2 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 file:

- srm2\_2\_soap.h

## 8.185 SRMv2\_\_srmPurgeFromSpaceResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmPurgeFromSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPurgeFromSpace".

```
#include <srm2_2_soap.h>
```

### 8.185.1 Detailed Description

Operation response struct "SRMv2\_\_srmPurgeFromSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPurgeFromSpace".

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

- srm2\_2\_soap.h

## 8.186 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**

### 8.186.1 Detailed Description

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

### 8.186.2 Field Documentation

#### 8.186.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmPutDoneRequest::arrayOfSURLs

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

#### 8.186.2.2 char\* SRMv2\_\_srmPutDoneRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.186.2.3 char\* SRMv2\_\_srmPutDoneRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.187 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

### 8.187.1 Detailed Description

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

### 8.187.2 Field Documentation

#### 8.187.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_srmPutDoneResponse::arrayOfFileStatuses

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

#### 8.187.2.2 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 file:

- srm2\_2\_soap.h

## 8.188 SRMv2\_\_srmPutDoneResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmPutDoneResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPutDone".

```
#include <srm2_2_soap.h>
```

### 8.188.1 Detailed Description

Operation response struct "SRMv2\_\_srmPutDoneResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmPutDone".

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

- srm2\_2\_soap.h

## 8.189 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**

### 8.189.1 Detailed Description

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

### 8.189.2 Field Documentation

#### 8.189.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmReleaseFilesRequest::arrayOfSURLs

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

#### 8.189.2.2 char\* SRMv2\_\_srmReleaseFilesRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.189.2.3 bool\* SRMv2\_\_srmReleaseFilesRequest::doRemove

Element doRemove of type xs:boolean. Nullable pointer.

#### 8.189.2.4 char\* SRMv2\_\_srmReleaseFilesRequest::requestToken

Element requestToken of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.190 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**

### 8.190.1 Detailed Description

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

### 8.190.2 Field Documentation

#### 8.190.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_srmReleaseFilesResponse::arrayOfFileStatuses

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

#### 8.190.2.2 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 file:

- srm2\_2\_soap.h



## 8.191 SRMv2\_\_srmReleaseFilesResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmReleaseFilesResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmReleaseFiles".

```
#include <srm2_2_soap.h>
```

### 8.191.1 Detailed Description

Operation response struct "SRMv2\_\_srmReleaseFilesResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmReleaseFiles".

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

- srm2\_2\_soap.h

## 8.192 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**

### 8.192.1 Detailed Description

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

### 8.192.2 Field Documentation

#### 8.192.2.1 char\* SRMv2\_\_srmReleaseSpaceRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.192.2.2 bool\* SRMv2\_\_srmReleaseSpaceRequest::forceFileRelease

Element forceFileRelease of type xs:boolean. Nullable pointer.

#### 8.192.2.3 char\* SRMv2\_\_srmReleaseSpaceRequest::spaceToken

Element spaceToken of type xs:string. Required element.

#### 8.192.2.4 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 file:

- srm2\_2\_soap.h

## 8.193 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**

### 8.193.1 Detailed Description

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

### 8.193.2 Field Documentation

#### 8.193.2.1 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 file:

- srm2\_2\_soap.h

## 8.194 SRMv2\_\_srmReleaseSpaceResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmReleaseSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmReleaseSpace".

```
#include <srm2_2_soap.h>
```

### 8.194.1 Detailed Description

Operation response struct "SRMv2\_\_srmReleaseSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmReleaseSpace".

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

- srm2\_2\_soap.h

## 8.195 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**

### 8.195.1 Detailed Description

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

### 8.195.2 Field Documentation

#### 8.195.2.1 SRMv2\_\_ArrayOfUnsignedLong\* SRMv2\_\_srmReserveSpaceRequest::arrayOfExpectedFileSizes

Element arrayOfExpectedFileSizes of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfUnsignedLong. Nullable pointer.

#### 8.195.2.2 char\* SRMv2\_\_srmReserveSpaceRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.195.2.3 int\* SRMv2\_\_srmReserveSpaceRequest::desiredLifetimeOfReservedSpace

Element desiredLifetimeOfReservedSpace of type xs:int. Nullable pointer.

#### 8.195.2.4 ULONG64 SRMv2\_\_srmReserveSpaceRequest::desiredSizeOfGuaranteedSpace

Element desiredSizeOfGuaranteedSpace of type xs:unsignedLong. Required element.

#### 8.195.2.5 ULONG64\* SRMv2\_\_srmReserveSpaceRequest::desiredSizeOfTotalSpace

Element desiredSizeOfTotalSpace of type xs:unsignedLong. Nullable pointer.

**8.195.2.6 SRMv2\_\_TRetentionPolicyInfo\* SRMv2\_\_-  
srmReserveSpaceRequest::retentionPolicyInfo**

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Required element.

**8.195.2.7 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmReserveSpaceRequest::storageSystemInfo**

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

**8.195.2.8 SRMv2\_\_TTransferParameters\* SRMv2\_\_-  
srmReserveSpaceRequest::transferParameters**

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

**8.195.2.9 char\* SRMv2\_\_srmReserveSpaceRequest::userSpaceTokenDescription**

Element userSpaceTokenDescription of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.196 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**

### 8.196.1 Detailed Description

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

### 8.196.2 Field Documentation

#### 8.196.2.1 int\* SRMv2\_\_srmReserveSpaceResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int. Nullable pointer.

#### 8.196.2.2 int\* SRMv2\_\_srmReserveSpaceResponse::lifetimeOfReservedSpace

Element lifetimeOfReservedSpace of type xs:int. Nullable pointer.

#### 8.196.2.3 char\* SRMv2\_\_srmReserveSpaceResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.196.2.4 SRMv2\_\_TRetentionPolicyInfo\* SRMv2\_\_srmReserveSpaceResponse::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer.

#### 8.196.2.5 SRMv2\_\_TReturnStatus\* SRMv2\_\_srmReserveSpaceResponse::returnStatus

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

**8.196.2.6   ULONG64\* SRMv2\_\_srmReserveSpaceResponse::sizeOfGuaranteedReservedSpace**

Element sizeOfGuaranteedReservedSpace of type xs:unsignedLong. Nullable pointer.

**8.196.2.7   ULONG64\* SRMv2\_\_srmReserveSpaceResponse::sizeOfTotalReservedSpace**

Element sizeOfTotalReservedSpace of type xs:unsignedLong. Nullable pointer.

**8.196.2.8   char\* SRMv2\_\_srmReserveSpaceResponse::spaceToken**

Element spaceToken of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h



## 8.197 SRMv2\_\_srmReserveSpaceResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmReserveSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmReserveSpace".

```
#include <srm2_2_soap.h>
```

### 8.197.1 Detailed Description

Operation response struct "SRMv2\_\_srmReserveSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmReserveSpace".

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

- srm2\_2\_soap.h

## 8.198 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**

### 8.198.1 Detailed Description

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

### 8.198.2 Field Documentation

#### 8.198.2.1 char\* SRMv2\_\_srmResumeRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.198.2.2 char\* SRMv2\_\_srmResumeRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.199 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**

### 8.199.1 Detailed Description

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

### 8.199.2 Field Documentation

#### 8.199.2.1 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 file:

- srm2\_2\_soap.h

## 8.200 SRMv2\_\_srmResumeRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmResumeRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmResumeRequest".

```
#include <srm2_2_soap.h>
```

### 8.200.1 Detailed Description

Operation response struct "SRMv2\_\_srmResumeRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmResumeRequest".

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

- srm2\_2\_soap.h

## 8.201 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**

### 8.201.1 Detailed Description

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

### 8.201.2 Field Documentation

#### 8.201.2.1 char\* SRMv2\_\_srmRmdirRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.201.2.2 bool\* SRMv2\_\_srmRmdirRequest::recursive

Element recursive of type xs:boolean. Nullable pointer.

#### 8.201.2.3 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_srmRmdirRequest::storageSystemInfo

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

#### 8.201.2.4 xsd\_\_anyURI SRMv2\_\_srmRmdirRequest::SURL

Element SURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.202 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**

### 8.202.1 Detailed Description

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

### 8.202.2 Field Documentation

#### 8.202.2.1 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 file:

- srm2\_2\_soap.h

## 8.203 SRMv2\_\_srmRmdirResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmRmdirResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmRmdir".

```
#include <srm2_2_soap.h>
```

### 8.203.1 Detailed Description

Operation response struct "SRMv2\_\_srmRmdirResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmRmdir".

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

- srm2\_2\_soap.h

## 8.204 SRMv2\_\_srmRmRequest Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- char \* **authorizationID**
- SRMv2\_\_ArrayOfAnyURI \* **arrayOfURLs**
- SRMv2\_\_ArrayOfTExtraInfo \* **storageSystemInfo**
- struct soap \* **soap**

### 8.204.1 Detailed Description

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

### 8.204.2 Field Documentation

#### 8.204.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmRmRequest::arrayOfURLs

Element arrayOfURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Required element.

#### 8.204.2.2 char\* SRMv2\_\_srmRmRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.204.2.3 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 file:

- srm2\_2\_soap.h



## 8.205 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**

### 8.205.1 Detailed Description

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

### 8.205.2 Field Documentation

#### 8.205.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_ - srmRmResponse::arrayOfFileStatuses

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

#### 8.205.2.2 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 file:

- srm2\_2\_soap.h

## 8.206 SRMv2\_\_srmRmResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmRmResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmRm".

```
#include <srm2_2_soap.h>
```

### 8.206.1 Detailed Description

Operation response struct "SRMv2\_\_srmRmResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmRm".

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

- srm2\_2\_soap.h

## 8.207 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**

### 8.207.1 Detailed Description

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

### 8.207.2 Field Documentation

#### 8.207.2.1 char\* SRMv2\_\_srmSetPermissionRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.207.2.2 enum SRMv2\_\_TPermissionType SRMv2\_\_srmSetPermissionRequest::permissionType

Element permissionType of type "http://srm.lbl.gov/StorageResourceManager":TPermissionType. Required element.

#### 8.207.2.3 enum SRMv2\_\_TPermissionMode\* ownerPermission SRMv2\_\_ArrayOfTUserPermission\* arrayOfUserPermissions SRMv2\_\_ArrayOfTGroupPermission\* arrayOfGroupPermissions enum SRMv2\_\_TPermissionMode\* otherPermission SRMv2\_\_ArrayOfTExtraInfo\* storageSystemInfo struct soap\* SRMv2\_\_srmSetPermissionRequest::soap

Element ownerPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode. Nullable pointer. Element arrayOfUserPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission. Nullable pointer. Element arrayOfGroupPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission. Nullable pointer. Element otherPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode. Nullable pointer. Element storageSystemInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

#### 8.207.2.4 xsd\_\_anyURI SRMv2\_\_srmSetPermissionRequest::SURL

Element SURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.208 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**

### 8.208.1 Detailed Description

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

### 8.208.2 Field Documentation

#### 8.208.2.1 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 file:

- srm2\_2\_soap.h

## 8.209 SRMv2\_\_srmSetPermissionResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmSetPermissionResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmSetPermission".

```
#include <srm2_2_soap.h>
```

### 8.209.1 Detailed Description

Operation response struct "SRMv2\_\_srmSetPermissionResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmSetPermission".

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

- srm2\_2\_soap.h

## 8.210 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 \* **arrayOfSourceURLs**
- struct soap \* **soap**

### 8.210.1 Detailed Description

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

### 8.210.2 Field Documentation

#### 8.210.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_srmStatusOfBringOnlineRequestRequest::arrayOfSourceURLs

Element arrayOfSourceURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Nullable pointer.

#### 8.210.2.2 char\* SRMv2\_\_srmStatusOfBringOnlineRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.210.2.3 char\* SRMv2\_\_srmStatusOfBringOnlineRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.211 SRMv2\_\_srmStatusOfBringOnlineRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestResponse is a complex-Type.

```
#include <srm2_2_soap.h>
```

### Data Fields

- SRMv2\_\_TReturnStatus \* returnStatus
- SRMv2\_\_ArrayOfTBringOnlineRequestFileStatus \* arrayOfFileStatuses
- int \* remainingTotalRequestTime
- int \* remainingDeferredStartTime
- struct soap \* soap

### 8.211.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfBringOnlineRequestResponse is a complex-Type.

### 8.211.2 Field Documentation

#### 8.211.2.1 SRMv2\_\_ArrayOfTBringOnlineRequestFileStatus\* SRMv2\_\_-srmStatusOfBringOnlineRequestResponse::arrayOfFileStatuses

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

#### 8.211.2.2 int\* SRMv2\_\_srmStatusOfBringOnlineRequestResponse::remainingDeferredStartTime

Element remainingDeferredStartTime of type xs:int. Nullable pointer.

#### 8.211.2.3 int\* SRMv2\_\_srmStatusOfBringOnlineRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.211.2.4 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 file:

- srm2\_2\_soap.h



## 8.212 SRMv2\_\_srmStatusOfBringOnlineRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfBringOnlineRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfBringOnlineRequest".

```
#include <srm2_2_soap.h>
```

### 8.212.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfBringOnlineRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfBringOnlineRequest".

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

- srm2\_2\_soap.h

## 8.213 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**

### 8.213.1 Detailed Description

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

### 8.213.2 Field Documentation

#### 8.213.2.1 char\* SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.213.2.2 char\* SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.214 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

### 8.214.1 Detailed Description

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

### 8.214.2 Field Documentation

#### 8.214.2.1 SRMv2\_\_ArrayOfTSURLReturnStatus\* SRMv2\_\_-srmStatusOfChangeSpaceForFilesRequestResponse::arrayOfFileStatuses

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

#### 8.214.2.2 int\* SRMv2\_\_-srmStatusOfChangeSpaceForFilesRequestResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int. Nullable pointer.

#### 8.214.2.3 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 file:

- srm2\_2\_soap.h

## 8.215 SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse\_ - Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfChangeSpaceForFilesRequest".

```
#include <srm2_2_soap.h>
```

### 8.215.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfChangeSpaceForFilesRequest".

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

- srm2\_2\_soap.h

## 8.216 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 \* **arrayOfSourceURLs**
- SRMv2\_\_ArrayOfAnyURI \* **arrayOfTargetURLs**
- struct soap \* **soap**

### 8.216.1 Detailed Description

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

### 8.216.2 Field Documentation

#### 8.216.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_-srmStatusOfCopyRequestRequest::arrayOfSourceURLs

Element arrayOfSourceURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Nullable pointer.

#### 8.216.2.2 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_-srmStatusOfCopyRequestRequest::arrayOfTargetURLs

Element arrayOfTargetURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Nullable pointer.

#### 8.216.2.3 char\* SRMv2\_\_srmStatusOfCopyRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.216.2.4 char\* SRMv2\_\_srmStatusOfCopyRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.217 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

### 8.217.1 Detailed Description

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

### 8.217.2 Field Documentation

#### 8.217.2.1 SRMv2\_\_ArrayOfTCopyRequestFileStatus\* SRMv2\_\_srmStatusOfCopyRequestResponse::arrayOfFileStatuses

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

#### 8.217.2.2 int\* SRMv2\_\_srmStatusOfCopyRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.217.2.3 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 file:

- srm2\_2\_soap.h

## 8.218 SRMv2\_\_srmStatusOfCopyRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfCopyRequestResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmStatusOfCopyRequest".

```
#include <srm2_2_soap.h>
```

### 8.218.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfCopyRequestResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmStatusOfCopyRequest".

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

- srm2\_2\_soap.h

## 8.219 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** \* **arrayOfSourceURLs**
- struct soap \* **soap**

### 8.219.1 Detailed Description

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

### 8.219.2 Field Documentation

#### 8.219.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_-srmStatusOfGetRequestRequest::arrayOfSourceURLs

Element arrayOfSourceURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Nullable pointer.

#### 8.219.2.2 char\* SRMv2\_\_srmStatusOfGetRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.219.2.3 char\* SRMv2\_\_srmStatusOfGetRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h



## 8.220 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**

### 8.220.1 Detailed Description

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

### 8.220.2 Field Documentation

#### 8.220.2.1 SRMv2\_\_ArrayOfTGetRequestFileStatus\* SRMv2\_\_srmStatusOfGetRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGetRequestFileStatus. Nullable pointer.

#### 8.220.2.2 int\* SRMv2\_\_srmStatusOfGetRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.220.2.3 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 file:

- srm2\_2\_soap.h

## 8.221 SRMv2\_\_srmStatusOfGetRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfGetRequestResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmStatusOfGetRequest".

```
#include <srm2_2_soap.h>
```

### 8.221.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfGetRequestResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmStatusOfGetRequest".

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

- srm2\_2\_soap.h

## 8.222 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**

### 8.222.1 Detailed Description

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

### 8.222.2 Field Documentation

#### 8.222.2.1 char\* SRMv2\_\_srmStatusOfLsRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.222.2.2 int\* SRMv2\_\_srmStatusOfLsRequestRequest::count

Element count of type xs:int. Nullable pointer.

#### 8.222.2.3 int\* SRMv2\_\_srmStatusOfLsRequestRequest::offset

Element offset of type xs:int. Optional element.

#### 8.222.2.4 char\* SRMv2\_\_srmStatusOfLsRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.223 SRMv2\_\_srmStatusOfLsRequestResponse Class Reference

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

```
#include <srm2_2_soap.h>
```

### Data Fields

- **SRMv2\_\_TReturnStatus \* returnStatus**
- **SRMv2\_\_ArrayOfTMetaPathDetail \* details**
- **struct soap \* soap**

### 8.223.1 Detailed Description

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

### 8.223.2 Field Documentation

#### 8.223.2.1 SRMv2\_\_ArrayOfTMetaPathDetail\* SRMv2\_\_-srmStatusOfLsRequestResponse::details

Element details of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaPathDetail. Nul-  
lable pointer.

#### 8.223.2.2 SRMv2\_\_TReturnStatus\* SRMv2\_\_srmStatusOfLsRequestResponse::returnStatus

Element returnStatus of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required ele-  
ment.

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

- srm2\_2\_soap.h

## 8.224 SRMv2\_\_srmStatusOfLsRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfLsRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfLsRequest".

```
#include <srm2_2_soap.h>
```

### 8.224.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfLsRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfLsRequest".

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

- srm2\_2\_soap.h

## 8.225 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 \* **arrayOfTargetURLs**
- struct soap \* **soap**

### 8.225.1 Detailed Description

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

### 8.225.2 Field Documentation

#### 8.225.2.1 SRMv2\_\_ArrayOfAnyURI\* SRMv2\_\_-srmStatusOfPutRequestRequest::arrayOfTargetURLs

Element arrayOfTargetURLs of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfAnyURI. Nullable pointer.

#### 8.225.2.2 char\* SRMv2\_\_srmStatusOfPutRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.225.2.3 char\* SRMv2\_\_srmStatusOfPutRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.226 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**

### 8.226.1 Detailed Description

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

### 8.226.2 Field Documentation

#### 8.226.2.1 SRMv2\_\_ArrayOfTPutRequestFileStatus\* SRMv2\_\_srmStatusOfPutRequestResponse::arrayOfFileStatuses

Element arrayOfFileStatuses of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTPutRequestFileStatus. Nullable pointer.

#### 8.226.2.2 int\* SRMv2\_\_srmStatusOfPutRequestResponse::remainingTotalRequestTime

Element remainingTotalRequestTime of type xs:int. Nullable pointer.

#### 8.226.2.3 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 file:

- srm2\_2\_soap.h

## 8.227 SRMv2\_\_srmStatusOfPutRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfPutRequestResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmStatusOfPutRequest".

```
#include <srm2_2_soap.h>
```

### 8.227.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfPutRequestResponse\_" of service binding "srmSoap-Binding" operation "SRMv2\_\_srmStatusOfPutRequest".

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

- srm2\_2\_soap.h



## 8.228 SRMv2\_\_srmStatusOfReserveSpaceRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestRequest is a complex-Type.

```
#include <srm2_2_soap.h>
```

### Data Fields

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

### 8.228.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestRequest is a complex-Type.

### 8.228.2 Field Documentation

#### 8.228.2.1 char\* SRMv2\_\_srmStatusOfReserveSpaceRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.228.2.2 char\* SRMv2\_\_srmStatusOfReserveSpaceRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.229 SRMv2\_\_srmStatusOfReserveSpaceRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestResponse is a complex-Type.

```
#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**

### 8.229.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfReserveSpaceRequestResponse is a complex-Type.

### 8.229.2 Field Documentation

#### 8.229.2.1 int\* SRMv2\_\_srmStatusOfReserveSpaceRequestResponse::estimatedProcessingTime

Element estimatedProcessingTime of type xs:int. Nullable pointer.

#### 8.229.2.2 int\* SRMv2\_\_srmStatusOfReserveSpaceRequestResponse::lifetimeOfReservedSpace

Element lifetimeOfReservedSpace of type xs:int. Nullable pointer.

#### 8.229.2.3 SRMv2\_\_TRetentionPolicyInfo\* SRMv2\_\_-srmStatusOfReserveSpaceRequestResponse::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer.

#### 8.229.2.4 SRMv2\_\_TReturnStatus\* SRMv2\_\_-srmStatusOfReserveSpaceRequestResponse::returnStatus

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

#### 8.229.2.5 ULONG64\* SRMv2\_\_srmStatusOfReserveSpaceRequestResponse::sizeOfGuaranteedReservedSpace

Element sizeOfGuaranteedReservedSpace of type xs:unsignedLong. Nullable pointer.

#### 8.229.2.6 ULONG64\* SRMv2\_\_srmStatusOfReserveSpaceRequestResponse::sizeOfTotalReservedSpace

Element sizeOfTotalReservedSpace of type xs:unsignedLong. Nullable pointer.

#### 8.229.2.7 char\* SRMv2\_\_srmStatusOfReserveSpaceRequestResponse::spaceToken

Element spaceToken of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.230 SRMv2\_\_srmStatusOfReserveSpaceRequestResponse\_- Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfReserveSpaceRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfReserveSpaceRequest".

```
#include <srm2_2_soap.h>
```

### 8.230.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfReserveSpaceRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfReserveSpaceRequest".

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

- srm2\_2\_soap.h

## 8.231 SRMv2\_\_srmStatusOfUpdateSpaceRequestRequest Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestRequest is a complex-Type.

```
#include <srm2_2_soap.h>
```

### Data Fields

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

### 8.231.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestRequest is a complex-Type.

### 8.231.2 Field Documentation

#### 8.231.2.1 char\* SRMv2\_\_srmStatusOfUpdateSpaceRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.231.2.2 char\* SRMv2\_\_srmStatusOfUpdateSpaceRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.232 SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse Class Reference

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestResponse is a complex-Type.

```
#include <srm2_2_soap.h>
```

### Data Fields

- **SRMv2\_\_TReturnStatus \* returnStatus**
- **ULONG64 \* sizeOfTotalSpace**
- **ULONG64 \* sizeOfGuaranteedSpace**
- **int \* lifetimeGranted**
- **struct soap \* soap**

### 8.232.1 Detailed Description

"http://srm.lbl.gov/StorageResourceManager":srmStatusOfUpdateSpaceRequestResponse is a complex-Type.

### 8.232.2 Field Documentation

#### 8.232.2.1 int\* SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse::lifetimeGranted

Element lifetimeGranted of type xs:int. Nullable pointer.

#### 8.232.2.2 SRMv2\_\_TReturnStatus\* SRMv2\_\_-srmStatusOfUpdateSpaceRequestResponse::returnStatus

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

#### 8.232.2.3 ULONG64\* SRMv2\_\_-srmStatusOfUpdateSpaceRequestResponse::sizeOfGuaranteedSpace

Element sizeOfGuaranteedSpace of type xs:unsignedLong. Nullable pointer.

#### 8.232.2.4 ULONG64\* SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse::sizeOfTotalSpace

Element sizeOfTotalSpace of type xs:unsignedLong. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.233 SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfUpdateSpaceRequest".

```
#include <srm2_2_soap.h>
```

### 8.233.1 Detailed Description

Operation response struct "SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmStatusOfUpdateSpaceRequest".

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

- srm2\_2\_soap.h

## 8.234 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**

### 8.234.1 Detailed Description

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

### 8.234.2 Field Documentation

#### 8.234.2.1 char\* SRMv2\_\_srmSuspendRequestRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.234.2.2 char\* SRMv2\_\_srmSuspendRequestRequest::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h



## 8.235 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**

### 8.235.1 Detailed Description

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

### 8.235.2 Field Documentation

#### 8.235.2.1 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 file:

- srm2\_2\_soap.h

## 8.236 SRMv2\_\_srmSuspendRequestResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmSuspendRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmSuspendRequest".

```
#include <srm2_2_soap.h>
```

### 8.236.1 Detailed Description

Operation response struct "SRMv2\_\_srmSuspendRequestResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmSuspendRequest".

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

- srm2\_2\_soap.h

## 8.237 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**

### 8.237.1 Detailed Description

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

### 8.237.2 Field Documentation

#### 8.237.2.1 char\* SRMv2\_\_srmUpdateSpaceRequest::authorizationID

Element authorizationID of type xs:string. Nullable pointer.

#### 8.237.2.2 int\* SRMv2\_\_srmUpdateSpaceRequest::newLifeTime

Element newLifeTime of type xs:int. Nullable pointer.

#### 8.237.2.3 ULONG64\* SRMv2\_\_srmUpdateSpaceRequest::newSizeOfGuaranteedSpaceDesired

Element newSizeOfGuaranteedSpaceDesired of type xs:unsignedLong. Nullable pointer.

#### 8.237.2.4 ULONG64\* SRMv2\_\_srmUpdateSpaceRequest::newSizeOfTotalSpaceDesired

Element newSizeOfTotalSpaceDesired of type xs:unsignedLong. Nullable pointer.

#### 8.237.2.5 char\* SRMv2\_\_srmUpdateSpaceRequest::spaceToken

Element spaceToken of type xs:string. Required element.

#### 8.237.2.6 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 file:

- srm2\_2\_soap.h

## 8.238 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**

### 8.238.1 Detailed Description

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

### 8.238.2 Field Documentation

#### 8.238.2.1 int\* SRMv2\_\_srmUpdateSpaceResponse::lifetimeGranted

Element lifetimeGranted of type xs:int. Nullable pointer.

#### 8.238.2.2 char\* SRMv2\_\_srmUpdateSpaceResponse::requestToken

Element requestToken of type xs:string. Nullable pointer.

#### 8.238.2.3 SRMv2\_\_TReturnStatus\* SRMv2\_\_srmUpdateSpaceResponse::returnStatus

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

#### 8.238.2.4 ULONG64\* SRMv2\_\_srmUpdateSpaceResponse::sizeOfGuaranteedSpace

Element sizeOfGuaranteedSpace of type xs:unsignedLong. Nullable pointer.

#### 8.238.2.5 ULONG64\* SRMv2\_\_srmUpdateSpaceResponse::sizeOfTotalSpace

Element sizeOfTotalSpace of type xs:unsignedLong. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.239 SRMv2\_\_srmUpdateSpaceResponse\_ Struct Reference

Operation response struct "SRMv2\_\_srmUpdateSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmUpdateSpace".

```
#include <srm2_2_soap.h>
```

### 8.239.1 Detailed Description

Operation response struct "SRMv2\_\_srmUpdateSpaceResponse\_" of service binding "srmSoapBinding" operation "SRMv2\_\_srmUpdateSpace".

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

- srm2\_2\_soap.h

## 8.240 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**

### 8.240.1 Detailed Description

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

### 8.240.2 Field Documentation

#### 8.240.2.1 int\* SRMv2\_\_TBringOnlineRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int. Nullable pointer.

#### 8.240.2.2 ULONG64\* SRMv2\_\_TBringOnlineRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong. Nullable pointer.

#### 8.240.2.3 int\* SRMv2\_\_TBringOnlineRequestFileStatus::remainingPinTime

Element remainingPinTime of type xs:int. Nullable pointer.

#### 8.240.2.4 xsd\_\_anyURI SRMv2\_\_TBringOnlineRequestFileStatus::sourceSURL

Element sourceSURL of type xs:anyURI. Required element.

#### 8.240.2.5 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 file:

- srm2\_2\_soap.h

## 8.241 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**

### 8.241.1 Detailed Description

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

### 8.241.2 Field Documentation

#### 8.241.2.1 SRMv2\_\_TDirOption\* SRMv2\_\_TCopyFileRequest::dirOption

Element dirOption of type "http://srm.lbl.gov/StorageResourceManager":TDirOption. Nullable pointer.

#### 8.241.2.2 xsd\_\_anyURI SRMv2\_\_TCopyFileRequest::sourceSURL

Element sourceSURL of type xs:anyURI. Required element.

#### 8.241.2.3 xsd\_\_anyURI SRMv2\_\_TCopyFileRequest::targetSURL

Element targetSURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h



## 8.242 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**

### 8.242.1 Detailed Description

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

### 8.242.2 Field Documentation

#### 8.242.2.1 int\* SRMv2\_\_TCopyRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int. Nullable pointer.

#### 8.242.2.2 ULONG64\* SRMv2\_\_TCopyRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong. Nullable pointer.

#### 8.242.2.3 int\* SRMv2\_\_TCopyRequestFileStatus::remainingFileLifetime

Element remainingFileLifetime of type xs:int. Nullable pointer.

#### 8.242.2.4 xsd\_\_anyURI SRMv2\_\_TCopyRequestFileStatus::sourceSURL

Element sourceSURL of type xs:anyURI. Required element.

#### 8.242.2.5 SRMv2\_\_TReturnStatus\* SRMv2\_\_TCopyRequestFileStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

#### 8.242.2.6 xsd\_\_anyURI SRMv2\_\_TCopyRequestFileStatus::targetSURL

Element targetSURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.243 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**

### 8.243.1 Detailed Description

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

### 8.243.2 Field Documentation

#### 8.243.2.1 bool\* SRMv2\_\_TDirOption::allLevelRecursive

Element allLevelRecursive of type xs:boolean. Nullable pointer.

#### 8.243.2.2 bool SRMv2\_\_TDirOption::isSourceADirectory

Element isSourceADirectory of type xs:boolean. Required element.

#### 8.243.2.3 int\* SRMv2\_\_TDirOption::numOfLevels

Element numOfLevels of type xs:int. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.244 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**

### 8.244.1 Detailed Description

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

### 8.244.2 Field Documentation

#### 8.244.2.1 char\* SRMv2\_\_TExtraInfo::key

Element key of type xs:string. Required element.

#### 8.244.2.2 char\* SRMv2\_\_TExtraInfo::value

Element value of type xs:string. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.245 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**

### 8.245.1 Detailed Description

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

### 8.245.2 Field Documentation

#### 8.245.2.1 SRMv2\_\_TDirOption\* SRMv2\_\_TGetFileRequest::dirOption

Element dirOption of type "http://srm.lbl.gov/StorageResourceManager":TDirOption. Nullable pointer.

#### 8.245.2.2 xsd\_\_anyURI SRMv2\_\_TGetFileRequest::sourceSURL

Element sourceSURL of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.246 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**

### 8.246.1 Detailed Description

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

### 8.246.2 Field Documentation

#### 8.246.2.1 int\* SRMv2\_\_TGetRequestFileStatus::estimatedWaitTime

Element estimatedWaitTime of type xs:int. Nullable pointer.

#### 8.246.2.2 ULONG64\* SRMv2\_\_TGetRequestFileStatus::fileSize

Element fileSize of type xs:unsignedLong. Nullable pointer.

#### 8.246.2.3 int\* SRMv2\_\_TGetRequestFileStatus::remainingPinTime

Element remainingPinTime of type xs:int. Nullable pointer.

#### 8.246.2.4 xsd\_\_anyURI SRMv2\_\_TGetRequestFileStatus::sourceSURL

Element sourceSURL of type xs:anyURI. Required element.

#### 8.246.2.5 SRMv2\_\_TReturnStatus\* SRMv2\_\_TGetRequestFileStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

#### 8.246.2.6 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_TGetRequestFileStatus::transferProtocolInfo

Element transferProtocolInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer.

**8.246.2.7 xsd\_\_anyURI SRMv2\_\_TGetRequestFileStatus::transferURL**

Element transferURL of type xs:anyURI. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.247 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**

### 8.247.1 Detailed Description

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

### 8.247.2 Field Documentation

#### 8.247.2.1 char\* SRMv2\_\_TGroupPermission::groupID

Element groupID of type xs:string. Required element.

#### 8.247.2.2 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 file:

- srm2\_2\_soap.h



## 8.248 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**

### 8.248.1 Detailed Description

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

### 8.248.2 Field Documentation

#### 8.248.2.1 time\_t\* SRMv2\_\_TMetaDataPathDetail::createdAtTime

Element createdAtTime of type xs:dateTime. Nullable pointer.

#### 8.248.2.2 time\_t\* SRMv2\_\_TMetaDataPathDetail::lastModificationTime

Element lastModificationTime of type xs:dateTime. Nullable pointer.

#### 8.248.2.3 char\* SRMv2\_\_TMetaDataPathDetail::path

Element path of type xs:string. Required element.

#### 8.248.2.4 ULONG64\* SRMv2\_\_TMetaDataPathDetail::size

Element size of type xs:unsignedLong. Nullable pointer.

**8.248.2.5** `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* SRMv2__TMetaDataPathDetail::soap`

Element `fileStorageType` of type `"http://srm.lbl.gov/StorageResourceManager":TFileStorageType`. Nullable pointer. Element `retentionPolicyInfo` of type `"http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo`. Nullable pointer. Element `fileLocality` of type `"http://srm.lbl.gov/StorageResourceManager":TFileLocality`. Nullable pointer. Element `arrayOfSpaceTokens` of type `"http://srm.lbl.gov/StorageResourceManager":ArrayOfString`. Nullable pointer. Element `type` of type `"http://srm.lbl.gov/StorageResourceManager":TFileType`. Nullable pointer. Element `lifetimeAssigned` of type `xs:int`. Nullable pointer. Element `lifetimeLeft` of type `xs:int`. Nullable pointer. Element `ownerPermission` of type `"http://srm.lbl.gov/StorageResourceManager":TUserPermission`. Nullable pointer. Element `groupPermission` of type `"http://srm.lbl.gov/StorageResourceManager":TGroupPermission`. Nullable pointer. Element `otherPermission` of type `"http://srm.lbl.gov/StorageResourceManager":TPermissionMode`. Nullable pointer. Element `checksumType` of type `xs:string`. Nullable pointer. Element `checksumValue` of type `xs:string`. Nullable pointer. Element `arrayOfSubPaths` of type `"http://srm.lbl.gov/StorageResourceManager":ArrayOfTMetaDataPathDetail`. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

#### **8.248.2.6** `SRMv2__TReturnStatus* SRMv2__TMetaDataPathDetail::status`

Element `status` of type `"http://srm.lbl.gov/StorageResourceManager":TReturnStatus`. Nullable pointer.

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

- `srm2_2_soap.h`

## 8.249 SRMv2\_\_TMetaDataSet Class Reference

"http://srm.lbl.gov/StorageResourceManager":TMetaDataSet 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**

### 8.249.1 Detailed Description

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

### 8.249.2 Field Documentation

#### 8.249.2.1 ULONG64\* SRMv2\_\_TMetaDataSet::guaranteedSize

Element guaranteedSize of type xs:unsignedLong. Nullable pointer.

#### 8.249.2.2 int\* SRMv2\_\_TMetaDataSet::lifetimeAssigned

Element lifetimeAssigned of type xs:int. Nullable pointer.

#### 8.249.2.3 int\* SRMv2\_\_TMetaDataSet::lifetimeLeft

Element lifetimeLeft of type xs:int. Nullable pointer.

#### 8.249.2.4 char\* SRMv2\_\_TMetaDataSet::owner

Element owner of type xs:string. Nullable pointer.

#### 8.249.2.5 SRMv2\_\_TRetentionPolicyInfo\* SRMv2\_\_TMetaDataSet::retentionPolicyInfo

Element retentionPolicyInfo of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicyInfo. Nullable pointer.

**8.249.2.6 char\* SRMv2\_\_TMetaDataSpace::spaceToken**

Element spaceToken of type xs:string. Required element.

**8.249.2.7 SRMv2\_\_TReturnStatus\* SRMv2\_\_TMetaDataSpace::status**

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Nullable pointer.

**8.249.2.8 ULONG64\* SRMv2\_\_TMetaDataSpace::totalSize**

Element totalSize of type xs:unsignedLong. Nullable pointer.

**8.249.2.9 ULONG64\* SRMv2\_\_TMetaDataSpace::unusedSize**

Element unusedSize of type xs:unsignedLong. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.250 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**

### 8.250.1 Detailed Description

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

### 8.250.2 Field Documentation

#### 8.250.2.1 char\* SRMv2\_\_TPermissionReturn::owner

Element owner of type xs:string. Nullable pointer.

#### 8.250.2.2 enum SRMv2\_\_TPermissionMode\* ownerPermission SRMv2\_\_ArrayOfTUserPermission\* arrayOfUserPermissions SRMv2\_\_ArrayOfTGroupPermission\* arrayOfGroupPermissions enum SRMv2\_\_TPermissionMode\* otherPermission struct soap\* SRMv2\_\_TPermissionReturn::soap

Element ownerPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode. Nullable pointer. Element arrayOfUserPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTUserPermission. Nullable pointer. Element arrayOfGroupPermissions of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTGroupPermission. Nullable pointer. Element otherPermission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

#### 8.250.2.3 SRMv2\_\_TReturnStatus\* SRMv2\_\_TPermissionReturn::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Nullable pointer.

#### 8.250.2.4 xsd\_\_anyURI SRMv2\_\_TPermissionReturn::surl

Element surl of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.251 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**

### 8.251.1 Detailed Description

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

### 8.251.2 Field Documentation

#### 8.251.2.1 ULONG64\* SRMv2\_\_TPutFileRequest::expectedFileSize

Element expectedFileSize of type xs:unsignedLong. Nullable pointer.

#### 8.251.2.2 xsd\_\_anyURI SRMv2\_\_TPutFileRequest::targetSURL

Element targetSURL of type xs:anyURI. Nullable pointer.

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

- srm2\_2\_soap.h

## 8.252 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**

### 8.252.1 Detailed Description

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

### 8.252.2 Field Documentation

#### 8.252.2.1 **int\*** SRMv2\_\_TPutRequestFileStatus::**estimatedWaitTime**

Element estimatedWaitTime of type xs:int. Nullable pointer.

#### 8.252.2.2 **ULONG64\*** SRMv2\_\_TPutRequestFileStatus::**fileSize**

Element fileSize of type xs:unsignedLong. Nullable pointer.

#### 8.252.2.3 **int\*** SRMv2\_\_TPutRequestFileStatus::**remainingFileLifetime**

Element remainingFileLifetime of type xs:int. Nullable pointer.

#### 8.252.2.4 **int\*** SRMv2\_\_TPutRequestFileStatus::**remainingPinLifetime**

Element remainingPinLifetime of type xs:int. Nullable pointer.

#### 8.252.2.5 **SRMv2\_\_TReturnStatus\*** SRMv2\_\_TPutRequestFileStatus::**status**

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

#### 8.252.2.6 **xsd\_\_anyURI** SRMv2\_\_TPutRequestFileStatus::**SURL**

Element SURL of type xs:anyURI. Required element.

**8.252.2.7 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_TPutRequestFileStatus::transferProtocolInfo**

Element transferProtocolInfo of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer.

**8.252.2.8 xsd\_\_anyURI SRMv2\_\_TPutRequestFileStatus::transferURL**

Element transferURL of type xs:anyURI. Nullable pointer.

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

- srm2\_2\_soap.h



## 8.253 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**

### 8.253.1 Detailed Description

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

### 8.253.2 Field Documentation

#### 8.253.2.1 char\* SRMv2\_\_TRequestSummary::requestToken

Element requestToken of type xs:string. Required element.

#### 8.253.2.2 enum SRMv2\_\_TRequestType\* requestType int\* totalNumFilesInRequest int\* numOfCompletedFiles int\* numOfWaitingFiles int\* numOfFailedFiles struct soap\* SRMv2\_\_TRequestSummary::soap

Element requestType of type "http://srm.lbl.gov/StorageResourceManager":TRequestType. Nullable pointer. Element totalNumFilesInRequest of type xs:int. Nullable pointer. Element numOfCompletedFiles of type xs:int. Nullable pointer. Element numOfWaitingFiles of type xs:int. Nullable pointer. Element numOfFailedFiles of type xs:int. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

#### 8.253.2.3 SRMv2\_\_TReturnStatus\* SRMv2\_\_TRequestSummary::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

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

- srm2\_2\_soap.h

## 8.254 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**

### 8.254.1 Detailed Description

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

### 8.254.2 Field Documentation

#### 8.254.2.1 time\_t\* SRMv2\_\_TRequestTokenReturn::createdAtTime

Element createdAtTime of type xs:dateTime. Nullable pointer.

#### 8.254.2.2 char\* SRMv2\_\_TRequestTokenReturn::requestToken

Element requestToken of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.255 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**

### 8.255.1 Detailed Description

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

### 8.255.2 Field Documentation

#### 8.255.2.1 enum SRMv2\_\_TRetentionPolicy SRMv2\_\_TRetentionPolicyInfo::retentionPolicy

Element retentionPolicy of type "http://srm.lbl.gov/StorageResourceManager":TRetentionPolicy. Required element.

#### 8.255.2.2 enum SRMv2\_\_TAccessLatency\* accessLatency struct soap\* SRMv2\_\_TRetentionPolicyInfo::soap

Element accessLatency of type "http://srm.lbl.gov/StorageResourceManager":TAccessLatency. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

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

- srm2\_2\_soap.h

## 8.256 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**

### 8.256.1 Detailed Description

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

### 8.256.2 Field Documentation

#### 8.256.2.1 char\* SRMv2\_\_TReturnStatus::explanation

Element explanation of type xs:string. Nullable pointer.

#### 8.256.2.2 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 file:

- srm2\_2\_soap.h

## 8.257 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**

### 8.257.1 Detailed Description

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

### 8.257.2 Field Documentation

#### 8.257.2.1 SRMv2\_\_ArrayOfTExtraInfo\* SRMv2\_\_TSupportedTransferProtocol::attributes

Element attributes of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfTExtraInfo. Nullable pointer.

#### 8.257.2.2 char\* SRMv2\_\_TSupportedTransferProtocol::transferProtocol

Element transferProtocol of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.258 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**

### 8.258.1 Detailed Description

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

### 8.258.2 Field Documentation

#### 8.258.2.1 int\* SRMv2\_\_TSURLLifetimeReturnStatus::fileLifetime

Element fileLifetime of type xs:int. Nullable pointer.

#### 8.258.2.2 int\* SRMv2\_\_TSURLLifetimeReturnStatus::pinLifetime

Element pinLifetime of type xs:int. Nullable pointer.

#### 8.258.2.3 SRMv2\_\_TReturnStatus\* SRMv2\_\_TSURLLifetimeReturnStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

#### 8.258.2.4 xsd\_\_anyURI SRMv2\_\_TSURLLifetimeReturnStatus::surl

Element surl of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.259 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**

### 8.259.1 Detailed Description

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

### 8.259.2 Field Documentation

#### 8.259.2.1 enum SRMv2\_\_TPermissionMode\* permission struct soap\* SRMv2\_\_TSURLPermissionReturn::soap

Element permission of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

#### 8.259.2.2 SRMv2\_\_TReturnStatus\* SRMv2\_\_TSURLPermissionReturn::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

#### 8.259.2.3 xsd\_\_anyURI SRMv2\_\_TSURLPermissionReturn::surl

Element surl of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h

## 8.260 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

### 8.260.1 Detailed Description

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

### 8.260.2 Field Documentation

#### 8.260.2.1 SRMv2\_\_TReturnStatus\* SRMv2\_\_TSURLReturnStatus::status

Element status of type "http://srm.lbl.gov/StorageResourceManager":TReturnStatus. Required element.

#### 8.260.2.2 xsd\_\_anyURI SRMv2\_\_TSURLReturnStatus::surl

Element surl of type xs:anyURI. Required element.

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

- srm2\_2\_soap.h



## 8.261 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

### 8.261.1 Detailed Description

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

### 8.261.2 Field Documentation

**8.261.2.1** enum SRMv2\_\_TAccessPattern\* accessPattern enum SRMv2\_\_TConnectionType\* connectionType SRMv2\_\_ArrayOfString\* arrayOfClientNetworks SRMv2\_\_ArrayOfString\* arrayOfTransferProtocols struct soap\* SRMv2\_\_TTransferParameters::soap

Element accessPattern of type "http://srm.lbl.gov/StorageResourceManager":TAccessPattern. Nullable pointer. Element connectionType of type "http://srm.lbl.gov/StorageResourceManager":TConnectionType. Nullable pointer. Element arrayOfClientNetworks of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString. Nullable pointer. Element arrayOfTransferProtocols of type "http://srm.lbl.gov/StorageResourceManager":ArrayOfString. Nullable pointer. A handle to the soap struct that manages this instance (automatically set)

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

- srm2\_2\_soap.h

## 8.262 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**

### 8.262.1 Detailed Description

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

### 8.262.2 Field Documentation

#### 8.262.2.1 enum SRMv2\_\_TPermissionMode SRMv2\_\_TUserPermission::mode

Element mode of type "http://srm.lbl.gov/StorageResourceManager":TPermissionMode. Required element.

#### 8.262.2.2 char\* SRMv2\_\_TUserPermission::userID

Element userID of type xs:string. Required element.

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

- srm2\_2\_soap.h

## 8.263 ArcSec::UsernameTokenSH Class Reference

Adds WS-Security Username Token into SOAP Header.

```
#include <UsernameTokenSH.h>
```

### 8.263.1 Detailed Description

Adds WS-Security Username Token into SOAP Header.

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

- UsernameTokenSH.h

## 8.264 ArcSec::X509TokenSH Class Reference

Adds WS-Security X509 Token into SOAP Header.

```
#include <X509TokenSH.h>
```

### 8.264.1 Detailed Description

Adds WS-Security X509 Token into SOAP Header.

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

- X509TokenSH.h

## 8.265 ArcSec::XACMLAlgFactory Class Reference

Algorithm factory class for XACML.

```
#include <XACMLAlgFactory.h>
```

### Public Member Functions

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

### 8.265.1 Detailed Description

Algorithm factory class for XACML.

### 8.265.2 Member Function Documentation

#### 8.265.2.1 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. 335) itself will release the Alg objects

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

- XACMLAlgFactory.h

## 8.266 ArcSec::XACMLApply Class Reference

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

- XACMLApply.h

## 8.267 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)

### 8.267.1 Detailed Description

Attribute factory class for XACML specified attributes.

### 8.267.2 Member Function Documentation

**8.267.2.1** 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

## 8.268 ArcSec::XACMLAttributeProxy< TheAttribute > Class Template Reference

XACML specific AttributeProxy class.

```
#include <XACMLAttributeProxy.h>
```

### Public Member Functions

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

#### 8.268.1 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



## 8.269 ArcSec::XACMLCondition Class Reference

**XACMLCondition** (p. 339) class to parse and operate XACML specific <Condition> node.

```
#include <XACMLCondition.h>
```

### Public Member Functions

- **XACMLCondition** (Arc::XMLNode &node, EvaluatorContext \*ctx)

### 8.269.1 Detailed Description

**XACMLCondition** (p. 339) class to parse and operate XACML specific <Condition> node.

### 8.269.2 Constructor & Destructor Documentation

#### 8.269.2.1 ArcSec::XACMLCondition::XACMLCondition (Arc::XMLNode & node, EvaluatorContext \* ctx)

Constructor -

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

- XACMLCondition.h

## 8.270 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)

#### 8.270.1 Detailed Description

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

#### 8.270.2 Constructor & Destructor Documentation

##### 8.270.2.1 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

## 8.271 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)

#### 8.271.1 Detailed Description

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

#### 8.271.2 Member Function Documentation

##### 8.271.2.1 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

## 8.272 ArcSec::XACMLFnFactory Class Reference

Function factory class for XACML specified attributes.

```
#include <XACMLFnFactory.h>
```

### Public Member Functions

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

### 8.272.1 Detailed Description

Function factory class for XACML specified attributes.

### 8.272.2 Member Function Documentation

#### 8.272.2.1 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. 342) itself will release the Function objects

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

- XACMLFnFactory.h

## 8.273 ArcSec::XACMLPDP Class Reference

**XACMLPDP** (p. 343) - PDP which can handle the XACML specific request and policy schema.

```
#include <XACMLPDP.h>
```

### 8.273.1 Detailed Description

**XACMLPDP** (p. 343) - PDP which can handle the XACML specific request and policy schema.

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

- XACMLPDP.h

## 8.274 ArcSec::XACMLPolicy Class Reference

**XACMLPolicy** (p. 344) 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** ()

### 8.274.1 Detailed Description

**XACMLPolicy** (p. 344) class to parse and operate XACML specific <Policy> node.

### 8.274.2 Constructor & Destructor Documentation

#### 8.274.2.1 ArcSec::XACMLPolicy::XACMLPolicy (void)

Constructor

#### 8.274.2.2 ArcSec::XACMLPolicy::XACMLPolicy (const Arc::XMLNode node)

Constructor

#### 8.274.2.3 ArcSec::XACMLPolicy::XACMLPolicy (const Arc::XMLNode node, EvaluatorContext \* ctx)

Constructor -

### 8.274.3 Member Function Documentation

#### 8.274.3.1 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

## 8.275 ArcSec::XACMLRequest Class Reference

### Public Member Functions

- virtual const char \* **getEvalName** () const
- virtual const char \* **getName** () const

### 8.275.1 Member Function Documentation

**8.275.1.1** virtual const char\* ArcSec::XACMLRequest::getEvalName () const [inline, virtual]

Get the name of corresponding evaluator

**8.275.1.2** 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

## 8.276 ArcSec::XACMLRule Class Reference

**XACMLRule** (p. 346) class to parse XACML specific <Rule> node.

```
#include <XACMLRule.h>
```

### 8.276.1 Detailed Description

**XACMLRule** (p. 346) class to parse XACML specific <Rule> node.

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

- XACMLRule.h



## 8.277 ArcSec::XACMLTarget Class Reference

**XACMLTarget** (p. 347) class to parse and operate XACML specific <Target> node.

```
#include <XACMLTarget.h>
```

### Public Member Functions

- **XACMLTarget** (Arc::XMLNode &node, EvaluatorContext \*ctx)

### 8.277.1 Detailed Description

**XACMLTarget** (p. 347) class to parse and operate XACML specific <Target> node.

### 8.277.2 Constructor & Destructor Documentation

#### 8.277.2.1 ArcSec::XACMLTarget::XACMLTarget (Arc::XMLNode & *node*, EvaluatorContext \* *ctx*)

Constructor -

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

- XACMLTarget.h

## 8.278 ArcSec::XACMLTargetMatch Class Reference

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

- XACMLTarget.h

## 8.279 ArcSec::XACMLTargetMatchGroup Class Reference

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

- XACMLTarget.h

## 8.280 ArcSec::XACMLTargetSection Class Reference

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

- XACMLTarget.h

# Index

- ~LDAPQuery
  - Arc::LDAPQuery, 79
- ~PayloadTLSSStream
  - Arc::PayloadTLSSStream, 103
- ~SRMClient
  - SRMClient, 119
- abort
  - SRM1Client, 109
  - SRM22Client, 115
  - SRMClient, 119
- allLevelRecursive
  - SRMv2\_\_TDirOption, 309
- AndList
  - ArcSec, 30
- Arc::ConfigTLSMCC, 52
- Arc::DataPointARC, 53
- Arc::DataPointFile, 54
- Arc::DataPointGridFTP, 55
- Arc::DataPointHTTP, 56
- Arc::DataPointLDAP, 57
- Arc::DataPointLFC, 58
- Arc::DataPointRLS, 59
- Arc::DataPointSRM, 60
- Arc::HTTPResponseHeader, 71
- Arc::HTTPSCient, 72
  - connect, 72
- Arc::HTTPSCientConnector, 73
  - transfer, 73
- Arc::HTTPSCientConnectorGlobus, 74
  - transfer, 74
- Arc::HTTPSCientConnectorGSSAPI, 75
  - transfer, 75
- Arc::HTTPSCientSOAP, 76
- Arc::LDAPQuery, 79
  - ~LDAPQuery, 79
  - LDAPQuery, 79
  - Query, 79
  - Result, 79
- Arc::Lister, 80
- Arc::MCC\_GSI\_Client, 81
- Arc::MCC\_GSI\_Service, 82
- Arc::MCC\_HTTP, 83
- Arc::MCC\_HTTP\_Client, 84
- Arc::MCC\_HTTP\_Service, 85
- Arc::MCC\_SOAP, 86
- Arc::MCC\_SOAP\_Client, 87
- Arc::MCC\_SOAP\_Service, 88
- Arc::MCC\_TCP, 89
- Arc::MCC\_TCP\_Client, 90
- Arc::MCC\_TCP\_Service, 91
  - MCC\_TCP\_Service, 91
- Arc::MCC\_TLS, 92
- Arc::MCC\_TLS\_Client, 93
- Arc::MCC\_TLS\_Service, 94
- Arc::PayloadGSISStream, 95
- Arc::PayloadHTTP, 96
  - Attribute, 97
  - Attributes, 97
  - attributes\_, 98
  - Body, 97
  - body\_own\_, 98
  - chunked\_, 98
  - code\_, 98
  - Flush, 98
  - get\_body, 98
  - keep\_alive\_, 98
  - length\_, 99
  - method\_, 99
  - parse\_header, 98
  - PayloadHTTP, 97
  - rbody\_, 99
  - read, 98
  - readline, 98
  - reason\_, 99
  - sbody\_, 99
  - stream\_, 99
  - stream\_own\_, 99
  - uri\_, 99
  - version\_major\_, 99
  - version\_minor\_, 99
- Arc::PayloadTCPSTicket, 101
  - PayloadTCPSTicket, 101
- Arc::PayloadTLSMCC, 102
  - PayloadTLSMCC, 102
- Arc::PayloadTLSSStream, 103
  - ~PayloadTLSSStream, 103
  - GetCert, 103
  - GetPeerCert, 103
  - PayloadTLSSStream, 103

- ssl\_, 104
- STACK\_OF, 104
- ArcEvaluationCtx
  - ArcSec::ArcEvaluationCtx, 36
- ArcPolicy
  - ArcSec::ArcPolicy, 40
- ArcSec, 27
  - AndList, 30
  - Match, 30
- ArcSec::AllowPDP, 31
- ArcSec::ArcAlgFactory, 32
  - createAlg, 32
- ArcSec::ArcAttributeFactory, 33
  - createValue, 33
- ArcSec::ArcAttributeProxy, 34
- ArcSec::ArcAuthZ, 35
  - Handle, 35
  - MakePDPs, 35
- ArcSec::ArcEvaluationCtx, 36
  - ArcEvaluationCtx, 36
  - split, 36
- ArcSec::ArcEvaluator, 37
  - evaluate, 37
- ArcSec::ArcFnFactory, 38
  - createFn, 38
- ArcSec::ArcPDP, 39
- ArcSec::ArcPolicy, 40
  - ArcPolicy, 40
  - make\_policy, 40
- ArcSec::ArcRequest, 41
- ArcSec::ArcRequestItem, 42
- ArcSec::ArcRequestTuple, 43
- ArcSec::ArcRule, 44
- ArcSec::AttributeDesignator, 50
- ArcSec::AttributeSelector, 51
- ArcSec::DelegationCollector, 61
- ArcSec::DelegationMultiSecAttr, 62
- ArcSec::DelegationPDP, 63
- ArcSec::DelegationSecAttr, 64
- ArcSec::DelegationSH, 65
- ArcSec::DenyPDP, 66
- ArcSec::GACLEvaluator, 67
  - evaluate, 67
- ArcSec::GACLPDP, 68
- ArcSec::GACLPolicy, 69
- ArcSec::GACLRequest, 70
- ArcSec::PDPSERVICEInvoker, 105
- ArcSec::SAML2SSO\_AssertionConsumerSH, 106
- ArcSec::SAMLTokenSH, 107
- ArcSec::SimpleListPDP, 108
- ArcSec::UsernameTokenSH, 333
- ArcSec::X509TokenSH, 334
- ArcSec::XACMLAlgFactory, 335
  - createAlg, 335
- ArcSec::XACMLApply, 336
- ArcSec::XACMLAttributeFactory, 337
  - createValue, 337
- ArcSec::XACMLAttributeProxy, 338
- ArcSec::XACMLCondition, 339
  - XACMLCondition, 339
- ArcSec::XACMLEvaluationCtx, 340
  - XACMLEvaluationCtx, 340
- ArcSec::XACMLEvaluator, 341
  - evaluate, 341
- ArcSec::XACMLFnFactory, 342
  - createFn, 342
- ArcSec::XACMLPDP, 343
- ArcSec::XACMLPolicy, 344
  - make\_policy, 344
  - XACMLPolicy, 344
- ArcSec::XACMLRequest, 345
  - getEvalName, 345
  - getName, 345
- ArcSec::XACMLRule, 346
- ArcSec::XACMLTarget, 347
  - XACMLTarget, 347
- ArcSec::XACMLTargetMatch, 348
- ArcSec::XACMLTargetMatchGroup, 349
- ArcSec::XACMLTargetSection, 350
- ArrayOfboolean, 45
  - soap, 45
- arrayOfExpectedFileSizes
  - SRMv2\_\_srmReserveSpaceRequest, 255
- ArrayOfFileMetaData, 46
  - soap, 46
- arrayOfFileRequests
  - SRMv2\_\_srmBringOnlineRequest, 185
  - SRMv2\_\_srmCopyRequest, 195
  - SRMv2\_\_srmPrepareToGetRequest, 235
  - SRMv2\_\_srmPrepareToPutRequest, 239
- arrayOfFileStatuses
  - SRMv2\_\_srmAbortFilesResponse, 180
  - SRMv2\_\_srmBringOnlineResponse, 187
  - SRMv2\_\_srmChangeSpaceForFilesResponse, 190
  - SRMv2\_\_srmCopyResponse, 197
  - SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse, 200
  - SRMv2\_\_srmExtendFileLifeTimeResponse, 203
  - SRMv2\_\_srmPrepareToGetResponse, 237
  - SRMv2\_\_srmPrepareToPutResponse, 241
  - SRMv2\_\_srmPurgeFromSpaceResponse, 244
  - SRMv2\_\_srmPutDoneResponse, 247
  - SRMv2\_\_srmReleaseFilesResponse, 250
  - SRMv2\_\_srmRmResponse, 267
  - SRMv2\_\_srmStatusOfBringOnlineRequestResponse, 274

- SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest, 277
- SRMv2\_\_srmStatusOfCopyRequestResponse, 280
- SRMv2\_\_srmStatusOfGetRequestResponse, 283
- SRMv2\_\_srmStatusOfPutRequestResponse, 289
- ArrayOflong, 47
  - soap, 47
- arrayOfPermissionReturns
  - SRMv2\_\_srmGetPermissionResponse, 206
- arrayOfPermissions
  - SRMv2\_\_srmCheckPermissionResponse, 193
- ArrayOfRequestFileStatus, 48
  - soap, 48
- arrayOfRequestSummaries
  - SRMv2\_\_srmGetRequestSummaryResponse, 209
- arrayOfRequestTokens
  - SRMv2\_\_srmGetRequestSummaryRequest, 208
  - SRMv2\_\_srmGetRequestTokensResponse, 212
- arrayOfSourceURLs
  - SRMv2\_\_srmStatusOfBringOnlineRequestRequest, 273
  - SRMv2\_\_srmStatusOfCopyRequestRequest, 279
  - SRMv2\_\_srmStatusOfGetRequestRequest, 282
- arrayOfSpaceDetails
  - SRMv2\_\_srmGetSpaceMetaDataResponse, 215
- arrayOfSpaceTokens
  - SRMv2\_\_srmGetSpaceMetaDataRequest, 214
  - SRMv2\_\_srmGetSpaceTokensResponse, 218
- ArrayOfstring, 49
  - soap, 49
- arrayOfURLs
  - SRMv2\_\_srmAbortFilesRequest, 179
  - SRMv2\_\_srmChangeSpaceForFilesRequest, 189
  - SRMv2\_\_srmCheckPermissionRequest, 192
  - SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest, 199
  - SRMv2\_\_srmExtendFileLifeTimeRequest, 202
  - SRMv2\_\_srmGetPermissionRequest, 205
  - SRMv2\_\_srmGetRequestSummaryRequest, 208
  - SRMv2\_\_srmGetRequestTokensRequest, 211
  - SRMv2\_\_srmGetSpaceMetaDataRequest, 214
  - SRMv2\_\_srmGetSpaceTokensRequest, 217
  - SRMv2\_\_srmGetTransferProtocolsRequest, 220
  - SRMv2\_\_srmLsRequest, 223
  - SRMv2\_\_srmMkdirRequest, 226
  - SRMv2\_\_srmMvRequest, 229
  - SRMv2\_\_srmPingRequest, 232
  - SRMv2\_\_srmPrepareToGetRequest, 235
  - SRMv2\_\_srmPrepareToPutRequest, 239
  - SRMv2\_\_srmPurgeFromSpaceRequest, 243
  - SRMv2\_\_srmPutDoneRequest, 246
  - SRMv2\_\_srmReleaseFilesRequest, 249
  - SRMv2\_\_srmReleaseSpaceRequest, 252
  - SRMv2\_\_srmReserveSpaceRequest, 255
  - SRMv2\_\_srmResumeRequestRequest, 260
  - SRMv2\_\_srmRmdirRequest, 263
  - SRMv2\_\_srmRmRequest, 266
  - SRMv2\_\_srmSetPermissionRequest, 269
  - SRMv2\_\_srmStatusOfBringOnlineRequestRequest, 273
  - SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest, 276
  - SRMv2\_\_srmStatusOfCopyRequestRequest, 279
  - SRMv2\_\_srmStatusOfPutRequestRequest, 288
- Attribute
  - Arc::PayloadHTTP, 97
- Attributes
  - Arc::PayloadHTTP, 97
- attributes
  - SRMv2\_\_TSupportedTransferProtocol, 327
- attributes\_
  - Arc::PayloadHTTP, 98
- authorizationID
  - SRMv2\_\_srmAbortFilesRequest, 179
  - SRMv2\_\_srmAbortRequestRequest, 182
  - SRMv2\_\_srmBringOnlineRequest, 185
  - SRMv2\_\_srmChangeSpaceForFilesRequest, 189
  - SRMv2\_\_srmCheckPermissionRequest, 192
  - SRMv2\_\_srmCopyRequest, 195
  - SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest, 199
  - SRMv2\_\_srmExtendFileLifeTimeRequest, 202
  - SRMv2\_\_srmGetPermissionRequest, 205
  - SRMv2\_\_srmGetRequestSummaryRequest, 208
  - SRMv2\_\_srmGetRequestTokensRequest, 211
  - SRMv2\_\_srmGetSpaceMetaDataRequest, 214
  - SRMv2\_\_srmGetSpaceTokensRequest, 217
  - SRMv2\_\_srmGetTransferProtocolsRequest, 220
  - SRMv2\_\_srmLsRequest, 223
  - SRMv2\_\_srmMkdirRequest, 226
  - SRMv2\_\_srmMvRequest, 229
  - SRMv2\_\_srmPingRequest, 232
  - SRMv2\_\_srmPrepareToGetRequest, 235
  - SRMv2\_\_srmPrepareToPutRequest, 239
  - SRMv2\_\_srmPurgeFromSpaceRequest, 243
  - SRMv2\_\_srmPutDoneRequest, 246
  - SRMv2\_\_srmReleaseFilesRequest, 249
  - SRMv2\_\_srmReleaseSpaceRequest, 252
  - SRMv2\_\_srmReserveSpaceRequest, 255
  - SRMv2\_\_srmResumeRequestRequest, 260
  - SRMv2\_\_srmRmdirRequest, 263
  - SRMv2\_\_srmRmRequest, 266
  - SRMv2\_\_srmSetPermissionRequest, 269
  - SRMv2\_\_srmStatusOfBringOnlineRequestRequest, 273
  - SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest, 276
  - SRMv2\_\_srmStatusOfCopyRequestRequest, 279
  - SRMv2\_\_srmStatusOfPutRequestRequest, 288

- SRMv2\_\_srmStatusOfGetRequestRequest, 282
- SRMv2\_\_srmStatusOfLsRequestRequest, 285
- SRMv2\_\_srmStatusOfPutRequestRequest, 288
- SRMv2\_\_srmStatusOfReserveSpaceRequestRequest, 291
- SRMv2\_\_srmStatusOfUpdateSpaceRequestRequest, 295
- SRMv2\_\_srmSuspendRequestRequest, 298
- SRMv2\_\_srmUpdateSpaceRequest, 301
- BaseURL
  - SRMURL, 136
- Body
  - Arc::PayloadHTTP, 97
- body\_own\_
  - Arc::PayloadHTTP, 98
- checksumType
  - SRMv1Type\_\_FileMetaData, 151
- checksumValue
  - SRMv1Type\_\_FileMetaData, 151
- chunked\_
  - Arc::PayloadHTTP, 98
- code\_
  - Arc::PayloadHTTP, 98
- connect
  - Arc::HTTPSCient, 72
  - SRMClient, 119
- ContactURL
  - SRMURL, 136
- copy
  - SRM1Client, 109
  - SRM22Client, 115
  - SRMClient, 119
- count
  - SRMv2\_\_srmStatusOfLsRequestRequest, 285
- createAlg
  - ArcSec::ArcAlgFactory, 32
  - ArcSec::XACMLAlgFactory, 335
- createdAtTime
  - SRMv2\_\_TMetaDataPathDetail, 315
  - SRMv2\_\_TRequestTokenReturn, 324
- createFn
  - ArcSec::ArcFnFactory, 38
  - ArcSec::XACMLFnFactory, 342
- createValue
  - ArcSec::ArcAttributeFactory, 33
  - ArcSec::XACMLAttributeFactory, 337
- csoap
  - SRMClient, 124
- desiredLifetimeOfReservedSpace
  - SRMv2\_\_srmReserveSpaceRequest, 255
- desiredSizeOfGuaranteedSpace
  - SRMv2\_\_srmReserveSpaceRequest, 255
- desiredSizeOfTotalSpace
  - SRMv2\_\_srmReserveSpaceRequest, 255
- destFilename
  - SRMv1Type\_\_RequestFileStatus, 153
- details
  - SRMv2\_\_srmLsResponse, 224
  - SRMv2\_\_srmStatusOfLsRequestResponse, 286
- dirOption
  - SRMv2\_\_TCopyFileRequest, 306
  - SRMv2\_\_TGetFileRequest, 311
- disconnect
  - SRMClient, 120
- doRemove
  - SRMv2\_\_srmReleaseFilesRequest, 249
- Endpoint
  - SRMURL, 136
- errorMessage
  - SRMv1Type\_\_RequestStatus, 155
- estimatedProcessingTime
  - SRMv2\_\_srmChangeSpaceForFilesResponse, 190
  - SRMv2\_\_srmReserveSpaceResponse, 257
  - SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse, 277
  - SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 292
- estimatedWaitTime
  - SRMv2\_\_TBringOnlineRequestFileStatus, 305
  - SRMv2\_\_TCopyRequestFileStatus, 307
  - SRMv2\_\_TGetRequestFileStatus, 312
  - SRMv2\_\_TPutRequestFileStatus, 321
- estSecondsToStart
  - SRMv1Type\_\_RequestFileStatus, 153
- estTimeToStart
  - SRMv1Type\_\_RequestStatus, 155
- evaluate
  - ArcSec::ArcEvaluator, 37
  - ArcSec::GACLEvaluator, 67
  - ArcSec::XACMLEvaluator, 341
- expectedFileSize
  - SRMv2\_\_TPutFileRequest, 320
- explanation
  - SRMv2\_\_TReturnStatus, 326
- extraInfoArray
  - SRMv2\_\_ArrayOfTExtraInfo, 162
- file\_ids
  - SRMClientRequest, 126



- fileId
  - SRMv1Type\_\_RequestFileStatus, 153
- fileLifetime
  - SRMv2\_\_TSURLLifetimeReturnStatus, 328
- FileName
  - SRMURL, 136
- fileSize
  - SRMv2\_\_TBringOnlineRequestFileStatus, 305
  - SRMv2\_\_TCopyRequestFileStatus, 307
  - SRMv2\_\_TGetRequestFileStatus, 312
  - SRMv2\_\_TPutRequestFileStatus, 321
- fileStatuses
  - SRMv1Type\_\_RequestStatus, 155
- finished\_success
  - SRMClientRequest, 126
- finishTime
  - SRMv1Type\_\_RequestStatus, 155
- Flush
  - Arc::PayloadHTTP, 98
- forceFileRelease
  - SRMv2\_\_srmReleaseSpaceRequest, 252
- fromSURL
  - SRMv2\_\_srmMvRequest, 229
- FullURL
  - SRMURL, 136
- get\_body
  - Arc::PayloadHTTP, 98
- GetCert
  - Arc::PayloadTLSStream, 103
- getEvalName
  - ArcSec::XACMLRequest, 345
- getInstance
  - SRMClient, 120
- getName
  - ArcSec::XACMLRequest, 345
- GetPeerCert
  - Arc::PayloadTLSStream, 103
- getRequestTokens
  - SRM1Client, 110
  - SRM22Client, 115
  - SRMClient, 120
- getSpaceTokens
  - SRM1Client, 110
  - SRM22Client, 115
  - SRMClient, 120
- getTURLs
  - SRM1Client, 110
  - SRM22Client, 116
  - SRMClient, 121
- getVersion
  - SRMClient, 121
- group
  - SRMv1Type\_\_FileMetaData, 151
- groupID
  - SRMv2\_\_TGroupPermission, 314
- groupPermissionArray
  - SRMv2\_\_ArrayOfTGroupPermission, 165
- guaranteedSize
  - SRMv2\_\_TMetaDataSpace, 317
- Handle
  - ArcSec::ArcAuthZ, 35
- implementation
  - SRMClient, 124
- info
  - SRM1Client, 111
  - SRM22Client, 116
  - SRMClient, 121
- isCached
  - SRMv1Type\_\_FileMetaData, 151
- isPermanent
  - SRMv1Type\_\_FileMetaData, 151
- isPinned
  - SRMv1Type\_\_FileMetaData, 152
- ISRM, 77
- ISRMService, 78
- isSourceADirectory
  - SRMv2\_\_TDirOption, 309
- keep\_alive\_
  - Arc::PayloadHTTP, 98
- key
  - SRMv2\_\_TExtraInfo, 310
- lastModificationTime
  - SRMv2\_\_TMetaDataPathDetail, 315
- LDAPQuery
  - Arc::LDAPQuery, 79
- length\_
  - Arc::PayloadHTTP, 99
- lifetimeAssigned
  - SRMv2\_\_TMetaDataSpace, 317
- lifetimeGranted
  - SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse, 296
  - SRMv2\_\_srmUpdateSpaceResponse, 303
- lifetimeLeft
  - SRMv2\_\_TMetaDataSpace, 317
- lifetimeOfReservedSpace
  - SRMv2\_\_srmReserveSpaceResponse, 257
  - SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 292
- logger
  - SRMClient, 125
- long\_list

- SRMClientRequest, 126
- make\_policy
  - ArcSec::ArcPolicy, 40
  - ArcSec::XACMLPolicy, 344
- MakePDPs
  - ArcSec::ArcAuthZ, 35
- Match
  - ArcSec, 30
- MCC\_TCP\_Service
  - Arc::MCC\_TCP\_Service, 91
- method\_
  - Arc::PayloadHTTP, 99
- mkdir
  - SRM1Client, 111
  - SRM22Client, 116
  - SRMClient, 121
- mode
  - SRMv2\_\_TGroupPermission, 314
  - SRMv2\_\_TUserPermission, 332
- newFileLifeTime
  - SRMv2\_\_srmExtendFileLifeTimeRequest, 202
- newLifeTime
  - SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest, 199
  - SRMv2\_\_srmUpdateSpaceRequest, 301
- newPinLifeTime
  - SRMv2\_\_srmExtendFileLifeTimeRequest, 202
- newSizeOfGuaranteedSpaceDesired
  - SRMv2\_\_srmUpdateSpaceRequest, 301
- newSizeOfTotalSpaceDesired
  - SRMv2\_\_srmUpdateSpaceRequest, 301
- numOfLevels
  - SRMv2\_\_TDirOption, 309
- offset
  - SRMv2\_\_srmStatusOfLsRequestRequest, 285
- otherInfo
  - SRMv2\_\_srmPingResponse, 233
- owner
  - SRMv1Type\_\_FileMetaData, 152
  - SRMv2\_\_TMetaDataSpace, 317
  - SRMv2\_\_TPermissionReturn, 319
- parse\_header
  - Arc::PayloadHTTP, 98
- path
  - SRMv2\_\_TMetaDataPathDetail, 315
- pathDetailArray
  - SRMv2\_\_ArrayOfTMetaDataPathDetail, 166
- PayloadHTTP
  - Arc::PayloadHTTP, 97
- PayloadTCPSocket
  - Arc::PayloadTCPSocket, 101
- PayloadTLMCC
  - Arc::PayloadTLMCC, 102
- PayloadTLSStream
  - Arc::PayloadTLSStream, 103
- permissionArray
  - SRMv2\_\_ArrayOfTPermissionReturn, 168
- permissionType
  - SRMv2\_\_srmSetPermissionRequest, 269
- permMode
  - SRMv1Type\_\_FileMetaData, 152
- ping
  - SRM1Client, 111
  - SRM22Client, 116
  - SRMClient, 122
- pinLifetime
  - SRMv2\_\_TSURLLifetimeReturnStatus, 328
- PortDefined
  - SRMURL, 136
- protocolArray
  - SRMv2\_\_ArrayOfTSupportedTransferProtocol, 173
- protocolInfo
  - SRMv2\_\_srmGetTransferProtocolsResponse, 221
- putURLs
  - SRM1Client, 112
  - SRM22Client, 116
  - SRMClient, 122
- Query
  - Arc::LDAPQuery, 79
- queueOrder
  - SRMv1Type\_\_RequestFileStatus, 153
- rbody\_
  - Arc::PayloadHTTP, 99
- read
  - Arc::PayloadHTTP, 98
- readline
  - Arc::PayloadHTTP, 98
- reason\_
  - Arc::PayloadHTTP, 99
- recursive
  - SRMv2\_\_srmRmdirRequest, 263
- release
  - SRM1Client, 112
  - SRM22Client, 116
  - SRMClient, 122
- releaseGet
  - SRM1Client, 112
  - SRM22Client, 116

- SRMClient, 123
- releasePut
  - SRM1Client, 113
  - SRM22Client, 117
  - SRMClient, 123
- remainingDeferredStartTime
  - SRMv2\_\_srmBringOnlineResponse, 187
  - SRMv2\_\_srmStatusOfBringOnlineRequestResponse, 274
- remainingFileLifetime
  - SRMv2\_\_TCopyRequestFileStatus, 307
  - SRMv2\_\_TPutRequestFileStatus, 321
- remainingPinLifetime
  - SRMv2\_\_TPutRequestFileStatus, 321
- remainingPinTime
  - SRMv2\_\_TBringOnlineRequestFileStatus, 305
  - SRMv2\_\_TGetRequestFileStatus, 312
- remainingTotalRequestTime
  - SRMv2\_\_srmBringOnlineResponse, 187
  - SRMv2\_\_srmCopyResponse, 197
  - SRMv2\_\_srmPrepareToGetResponse, 237
  - SRMv2\_\_srmPrepareToPutResponse, 241
  - SRMv2\_\_srmStatusOfBringOnlineRequestResponse, 274
  - SRMv2\_\_srmStatusOfCopyRequestResponse, 280
  - SRMv2\_\_srmStatusOfGetRequestResponse, 283
  - SRMv2\_\_srmStatusOfPutRequestResponse, 289
- remove
  - SRM1Client, 113
  - SRM22Client, 117
  - SRMClient, 123
- request\_id
  - SRMClientRequest, 127
- request\_timeout
  - SRMClient, 125
- request\_token
  - SRMClientRequest, 127
- requestArray
  - SRMv2\_\_ArrayOfTCopyFileRequest, 160
  - SRMv2\_\_ArrayOfTGetFileRequest, 163
  - SRMv2\_\_ArrayOfTPutFileRequest, 169
- requestBringOnline
  - SRM1Client, 113
  - SRM22Client, 117
  - SRMClient, 124
- requestBringOnlineStatus
  - SRM1Client, 113
  - SRM22Client, 117
  - SRMClient, 124
- requestId
  - SRMv1Type\_\_RequestStatus, 155
- requestToken
  - SRMv2\_\_srmAbortFilesRequest, 179
  - SRMv2\_\_srmAbortRequestRequest, 182
  - SRMv2\_\_srmBringOnlineResponse, 187
  - SRMv2\_\_srmChangeSpaceForFilesResponse, 190
  - SRMv2\_\_srmCopyResponse, 197
  - SRMv2\_\_srmExtendFileLifeTimeRequest, 202
  - SRMv2\_\_srmLsResponse, 224
  - SRMv2\_\_srmPrepareToGetResponse, 237
  - SRMv2\_\_srmPrepareToPutResponse, 241
  - SRMv2\_\_srmPutDoneRequest, 246
  - SRMv2\_\_srmReleaseFilesRequest, 249
  - SRMv2\_\_srmReserveSpaceResponse, 257
  - SRMv2\_\_srmResumeRequestRequest, 260
  - SRMv2\_\_srmStatusOfBringOnlineRequestRequest, 273
  - SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest, 276
  - SRMv2\_\_srmStatusOfCopyRequestRequest, 279
  - SRMv2\_\_srmStatusOfGetRequestRequest, 282
  - SRMv2\_\_srmStatusOfLsRequestRequest, 285
  - SRMv2\_\_srmStatusOfPutRequestRequest, 288
  - SRMv2\_\_srmStatusOfReserveSpaceRequestRequest, 291
  - SRMv2\_\_srmStatusOfUpdateSpaceRequestRequest, 295
  - SRMv2\_\_srmSuspendRequestRequest, 298
  - SRMv2\_\_srmUpdateSpaceResponse, 303
  - SRMv2\_\_TRequestSummary, 323
  - SRMv2\_\_TRequestTokenReturn, 324
- Result
  - Arc::LDAPQuery, 79
- retentionPolicy
  - SRMv2\_\_TRetentionPolicyInfo, 325
- retentionPolicyInfo
  - SRMv2\_\_srmReserveSpaceRequest, 255
  - SRMv2\_\_srmReserveSpaceResponse, 257
  - SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 292
  - SRMv2\_\_TMetaDataSpace, 317
- retryDeltaTime
  - SRMv1Type\_\_RequestStatus, 155
- returnStatus
  - SRMv2\_\_srmAbortFilesResponse, 180
  - SRMv2\_\_srmAbortRequestResponse, 183
  - SRMv2\_\_srmBringOnlineResponse, 187
  - SRMv2\_\_srmChangeSpaceForFilesResponse, 190

- SRMv2\_\_srmCheckPermissionResponse, 193
- SRMv2\_\_srmCopyResponse, 197
- SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse, 200
- SRMv2\_\_srmExtendFileLifeTimeResponse, 203
- SRMv2\_\_srmGetPermissionResponse, 206
- SRMv2\_\_srmGetRequestSummaryResponse, 209
- SRMv2\_\_srmGetRequestTokensResponse, 212
- SRMv2\_\_srmGetSpaceMetaDataResponse, 215
- SRMv2\_\_srmGetSpaceTokensResponse, 218
- SRMv2\_\_srmGetTransferProtocolsResponse, 221
- SRMv2\_\_srmLsResponse, 224
- SRMv2\_\_srmMkdirResponse, 227
- SRMv2\_\_srmMvResponse, 230
- SRMv2\_\_srmPrepareToGetResponse, 237
- SRMv2\_\_srmPrepareToPutResponse, 241
- SRMv2\_\_srmPurgeFromSpaceResponse, 244
- SRMv2\_\_srmPutDoneResponse, 247
- SRMv2\_\_srmReleaseFilesResponse, 250
- SRMv2\_\_srmReleaseSpaceResponse, 253
- SRMv2\_\_srmReserveSpaceResponse, 257
- SRMv2\_\_srmResumeRequestResponse, 261
- SRMv2\_\_srmRmdirResponse, 264
- SRMv2\_\_srmRmResponse, 267
- SRMv2\_\_srmSetPermissionResponse, 271
- SRMv2\_\_srmStatusOfBringOnlineRequestResponse, 274
- SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse, 277
- SRMv2\_\_srmStatusOfCopyRequestResponse, 280
- SRMv2\_\_srmStatusOfGetRequestResponse, 283
- SRMv2\_\_srmStatusOfLsRequestResponse, 286
- SRMv2\_\_srmStatusOfPutRequestResponse, 289
- SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 292
- SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse, 296
- SRMv2\_\_srmSuspendRequestResponse, 299
- SRMv2\_\_srmUpdateSpaceResponse, 303
- SRMURL, 136
- ShortURL
- SRMURL, 137
- size
  - SRMv1Type\_\_FileMetaData, 152
  - SRMv2\_\_TMetaDataPathDetail, 315
- sizeOfGuaranteedReservedSpace
  - SRMv2\_\_srmReserveSpaceResponse, 257
  - SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 292
- sizeOfGuaranteedSpace
  - SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse, 296
  - SRMv2\_\_srmUpdateSpaceResponse, 303
- sizeOfTotalReservedSpace
  - SRMv2\_\_srmReserveSpaceResponse, 258
  - SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 293
- sizeOfTotalSpace
  - SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse, 296
  - SRMv2\_\_srmUpdateSpaceResponse, 303
- soap
  - ArrayOfboolean, 45
  - ArrayOfFileMetaData, 46
  - ArrayOflong, 47
  - ArrayOfRequestFileStatus, 48
  - ArrayOfstring, 49
  - SRMv2\_\_srmBringOnlineRequest, 185
  - SRMv2\_\_srmCopyRequest, 195
  - SRMv2\_\_srmLsRequest, 223
  - SRMv2\_\_srmPrepareToGetRequest, 235
  - SRMv2\_\_srmPrepareToPutRequest, 239
  - SRMv2\_\_srmSetPermissionRequest, 269
  - SRMv2\_\_TMetaDataPathDetail, 315
  - SRMv2\_\_TPermissionReturn, 319
  - SRMv2\_\_TRequestSummary, 323
  - SRMv2\_\_TRetentionPolicyInfo, 325
  - SRMv2\_\_TSURLPermissionReturn, 329
  - SRMv2\_\_TTransferParameters, 331
- sourceFilename
  - SRMv1Type\_\_RequestFileStatus, 153
- sourceURL
  - SRMv2\_\_TBringOnlineRequestFileStatus, 305
  - SRMv2\_\_TCopyFileRequest, 306
  - SRMv2\_\_TCopyRequestFileStatus, 307
  - SRMv2\_\_TGetFileRequest, 311
  - SRMv2\_\_TGetRequestFileStatus, 312
- space\_token
  - SRMClientRequest, 127
- spaceDataArray
  - SRMv2\_\_ArrayOfTMetaDataSpace, 167
- spaceToken
- sbody\_
  - Arc::PayloadHTTP, 99
- service\_endpoint
  - SRMClient, 125
- SetSRMVersion

- SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest, 199
- SRMv2\_\_srmPurgeFromSpaceRequest, 243
- SRMv2\_\_srmReleaseSpaceRequest, 252
- SRMv2\_\_srmReserveSpaceResponse, 258
- SRMv2\_\_srmStatusOfReserveSpaceRequestResponseping, 122
- SRMv2\_\_srmUpdateSpaceRequest, 301
- SRMv2\_\_TMetaDataSpace, 317
- split
  - ArcSec::ArcEvaluationCtx, 36
- SRM1Client, 109
  - abort, 109
  - copy, 109
  - getRequestTokens, 110
  - getSpaceTokens, 110
  - getTURLs, 110
  - info, 111
  - mkdir, 111
  - ping, 111
  - putTURLs, 112
  - release, 112
  - releaseGet, 112
  - releasePut, 113
  - remove, 113
  - requestBringOnline, 113
  - requestBringOnlineStatus, 113
- SRM22Client, 115
  - abort, 115
  - copy, 115
  - getRequestTokens, 115
  - getSpaceTokens, 115
  - getTURLs, 116
  - info, 116
  - mkdir, 116
  - ping, 116
  - putTURLs, 116
  - release, 116
  - releaseGet, 116
  - releasePut, 117
  - remove, 117
  - requestBringOnline, 117
  - requestBringOnlineStatus, 117
- SRMClient, 118
  - ~SRMClient, 119
  - abort, 119
  - connect, 119
  - copy, 119
  - csoap, 124
  - disconnect, 120
  - getInstance, 120
  - getRequestTokens, 120
  - getSpaceTokens, 120
  - getTURLs, 121
  - getVersion, 121
  - implementation, 124
  - info, 121
  - logger, 125
  - mkdir, 121
  - putTURLs, 122
  - release, 122
  - releaseGet, 123
  - releasePut, 123
  - remove, 123
  - request\_timeout, 125
  - requestBringOnline, 124
  - requestBringOnlineStatus, 124
  - service\_endpoint, 125
  - Timeout, 124
  - version, 125
- SRMClientRequest, 126
  - file\_ids, 126
  - finished\_success, 126
  - long\_list, 126
  - request\_id, 127
  - request\_token, 127
  - space\_token, 127
  - SRMClientRequest, 126
  - surl\_failures, 127
  - surl\_statuses, 127
  - surls, 127
  - waiting\_time, 127
- SRMFileInfo, 128
- SRMFileMetaData, 129
- SRMInfo, 130
- SRMInvalidRequestException, 131
- srmSoapBinding, 132
- srmSoapBindingService, 135
- SRMURL, 136
  - BaseURL, 136
  - ContactURL, 136
  - Endpoint, 136
  - FileName, 136
  - FullURL, 136
  - PortDefined, 136
  - SetSRMVersion, 136
  - ShortURL, 137
  - SRMURL, 136
- SRMv1Meth\_\_advisoryDeleteResponse, 138
- SRMv1Meth\_\_copyResponse, 139
- SRMv1Meth\_\_getEstGetTimeResponse, 140
- SRMv1Meth\_\_getEstPutTimeResponse, 141
- SRMv1Meth\_\_getFileMetaDataResponse, 142
- SRMv1Meth\_\_getProtocolsResponse, 143
- SRMv1Meth\_\_getRequestStatusResponse, 144
- SRMv1Meth\_\_getResponse, 145
- SRMv1Meth\_\_mkPermanentResponse, 146

- SRMv1Meth\_\_pinResponse, 147
- SRMv1Meth\_\_putResponse, 148
- SRMv1Meth\_\_setFileStatusResponse, 149
- SRMv1Meth\_\_unPinResponse, 150
- SRMv1Type\_\_FileMetaData, 151
  - checksumType, 151
  - checksumValue, 151
  - group, 151
  - isCached, 151
  - isPermanent, 151
  - isPinned, 152
  - owner, 152
  - permMode, 152
  - size, 152
  - SURL, 152
- SRMv1Type\_\_RequestFileStatus, 153
  - destFilename, 153
  - estSecondsToStart, 153
  - fileId, 153
  - queueOrder, 153
  - sourceFilename, 153
  - state, 154
  - TURL, 154
- SRMv1Type\_\_RequestStatus, 155
  - errorMessage, 155
  - estTimeToStart, 155
  - fileStatuses, 155
  - finishTime, 155
  - requestId, 155
  - retryDeltaTime, 155
  - startTime, 156
  - state, 156
  - submitTime, 156
  - type, 156
- SRMv2\_\_ArrayOfAnyURI, 157
  - urlArray, 157
- SRMv2\_\_ArrayOfString, 158
  - stringArray, 158
- SRMv2\_\_ArrayOfTBringOnlineRequestFileStatus, 159
  - statusArray, 159
- SRMv2\_\_ArrayOfTCopyFileRequest, 160
  - requestArray, 160
- SRMv2\_\_ArrayOfTCopyRequestFileStatus, 161
- SRMv2\_\_ArrayOfTExtraInfo, 162
  - extraInfoArray, 162
- SRMv2\_\_ArrayOfTGetFileRequest, 163
  - requestArray, 163
- SRMv2\_\_ArrayOfTGetRequestFileStatus, 164
  - statusArray, 164
- SRMv2\_\_ArrayOfTGroupPermission, 165
  - groupPermissionArray, 165
- SRMv2\_\_ArrayOfTMetaDataPathDetail, 166
  - pathDetailArray, 166
- SRMv2\_\_ArrayOfTMetaDataSpace, 167
  - spaceDataArray, 167
- SRMv2\_\_ArrayOfTPermissionReturn, 168
  - permissionArray, 168
- SRMv2\_\_ArrayOfTPutFileRequest, 169
  - requestArray, 169
- SRMv2\_\_ArrayOfTPutRequestFileStatus, 170
- SRMv2\_\_ArrayOfTRequestSummary, 171
  - summaryArray, 171
- SRMv2\_\_ArrayOfTRequestTokenReturn, 172
  - tokenArray, 172
- SRMv2\_\_ArrayOfTSupportedTransferProtocol, 173
  - protocolArray, 173
- SRMv2\_\_ArrayOfTSURLLifetimeReturnStatus, 174
  - statusArray, 174
- SRMv2\_\_ArrayOfTSURLPermissionReturn, 175
- SRMv2\_\_ArrayOfTSURLReturnStatus, 176
  - statusArray, 176
- SRMv2\_\_ArrayOfTUserPermission, 177
  - userPermissionArray, 177
- SRMv2\_\_ArrayOfUnsignedLong, 178
  - unsignedLongArray, 178
- SRMv2\_\_srmAbortFilesRequest, 179
  - arrayOfSURLs, 179
  - authorizationID, 179
  - requestToken, 179
- SRMv2\_\_srmAbortFilesResponse, 180
  - arrayOfFileStatuses, 180
  - returnStatus, 180
- SRMv2\_\_srmAbortFilesResponse\_, 181
- SRMv2\_\_srmAbortRequestRequest, 182
  - authorizationID, 182
  - requestToken, 182
- SRMv2\_\_srmAbortRequestResponse, 183
  - returnStatus, 183
- SRMv2\_\_srmAbortRequestResponse\_, 184
- SRMv2\_\_srmBringOnlineRequest, 185
  - arrayOfFileRequests, 185
  - authorizationID, 185
  - soap, 185
  - storageSystemInfo, 185
  - userRequestDescription, 186
- SRMv2\_\_srmBringOnlineResponse, 187
  - arrayOfFileStatuses, 187
  - remainingDeferredStartTime, 187
  - remainingTotalRequestTime, 187
  - requestToken, 187
  - returnStatus, 187
- SRMv2\_\_srmBringOnlineResponse\_, 188
- SRMv2\_\_srmChangeSpaceForFilesRequest, 189
  - arrayOfSURLs, 189
  - authorizationID, 189

- storageSystemInfo, 189
- targetSpaceToken, 189
- SRMv2\_\_srmChangeSpaceForFilesResponse, 190
  - arrayOfFileStatuses, 190
  - estimatedProcessingTime, 190
  - requestToken, 190
  - returnStatus, 190
- SRMv2\_\_srmChangeSpaceForFilesResponse\_, 191
- SRMv2\_\_srmCheckPermissionRequest, 192
  - arrayOfSURLs, 192
  - authorizationID, 192
  - storageSystemInfo, 192
- SRMv2\_\_srmCheckPermissionResponse, 193
  - arrayOfPermissions, 193
  - returnStatus, 193
- SRMv2\_\_srmCheckPermissionResponse\_, 194
- SRMv2\_\_srmCopyRequest, 195
  - arrayOfFileRequests, 195
  - authorizationID, 195
  - soap, 195
  - userRequestDescription, 195
- SRMv2\_\_srmCopyResponse, 197
  - arrayOfFileStatuses, 197
  - remainingTotalRequestTime, 197
  - requestToken, 197
  - returnStatus, 197
- SRMv2\_\_srmCopyResponse\_, 198
- SRMv2\_\_srmExtendFileLifeTimeInSpaceRequest, 199
  - arrayOfSURLs, 199
  - authorizationID, 199
  - newLifeTime, 199
  - spaceToken, 199
- SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse, 200
  - arrayOfFileStatuses, 200
  - returnStatus, 200
- SRMv2\_\_srmExtendFileLifeTimeInSpaceResponse\_, 201
- SRMv2\_\_srmExtendFileLifeTimeRequest, 202
  - arrayOfSURLs, 202
  - authorizationID, 202
  - newFileLifeTime, 202
  - newPinLifeTime, 202
  - requestToken, 202
- SRMv2\_\_srmExtendFileLifeTimeResponse, 203
  - arrayOfFileStatuses, 203
  - returnStatus, 203
- SRMv2\_\_srmExtendFileLifeTimeResponse\_, 204
- SRMv2\_\_srmGetPermissionRequest, 205
  - arrayOfSURLs, 205
  - authorizationID, 205
  - storageSystemInfo, 205
- SRMv2\_\_srmGetPermissionResponse, 206
  - arrayOfPermissionReturns, 206
  - returnStatus, 206
- SRMv2\_\_srmGetPermissionResponse\_, 207
- SRMv2\_\_srmGetRequestSummaryRequest, 208
  - arrayOfRequestTokens, 208
  - authorizationID, 208
- SRMv2\_\_srmGetRequestSummaryResponse, 209
  - arrayOfRequestSummaries, 209
  - returnStatus, 209
- SRMv2\_\_srmGetRequestSummaryResponse\_, 210
- SRMv2\_\_srmGetRequestTokensRequest, 211
  - authorizationID, 211
  - userRequestDescription, 211
- SRMv2\_\_srmGetRequestTokensResponse, 212
  - arrayOfRequestTokens, 212
  - returnStatus, 212
- SRMv2\_\_srmGetRequestTokensResponse\_, 213
- SRMv2\_\_srmGetSpaceMetaDataRequest, 214
  - arrayOfSpaceTokens, 214
  - authorizationID, 214
- SRMv2\_\_srmGetSpaceMetaDataResponse, 215
  - arrayOfSpaceDetails, 215
  - returnStatus, 215
- SRMv2\_\_srmGetSpaceMetaDataResponse\_, 216
- SRMv2\_\_srmGetSpaceTokensRequest, 217
  - authorizationID, 217
  - userSpaceTokenDescription, 217
- SRMv2\_\_srmGetSpaceTokensResponse, 218
  - arrayOfSpaceTokens, 218
  - returnStatus, 218
- SRMv2\_\_srmGetSpaceTokensResponse\_, 219
- SRMv2\_\_srmGetTransferProtocolsRequest, 220
  - authorizationID, 220
- SRMv2\_\_srmGetTransferProtocolsResponse, 221
  - protocolInfo, 221
  - returnStatus, 221
- SRMv2\_\_srmGetTransferProtocolsResponse\_, 222
- SRMv2\_\_srmLsRequest, 223
  - arrayOfSURLs, 223
  - authorizationID, 223
  - soap, 223
  - storageSystemInfo, 223
- SRMv2\_\_srmLsResponse, 224
  - details, 224
  - requestToken, 224
  - returnStatus, 224
- SRMv2\_\_srmLsResponse\_, 225
- SRMv2\_\_srmMkdirRequest, 226
  - authorizationID, 226
  - storageSystemInfo, 226
  - SURL, 226
- SRMv2\_\_srmMkdirResponse, 227
  - returnStatus, 227
- SRMv2\_\_srmMkdirResponse\_, 228

- SRMv2\_\_srmMvRequest, 229
  - authorizationID, 229
  - fromSURL, 229
  - storageSystemInfo, 229
  - toSURL, 229
- SRMv2\_\_srmMvResponse, 230
  - returnStatus, 230
- SRMv2\_\_srmMvResponse\_, 231
- SRMv2\_\_srmPingRequest, 232
  - authorizationID, 232
- SRMv2\_\_srmPingResponse, 233
  - otherInfo, 233
  - versionInfo, 233
- SRMv2\_\_srmPingResponse\_, 234
- SRMv2\_\_srmPrepareToGetRequest, 235
  - arrayOfFileRequests, 235
  - authorizationID, 235
  - soap, 235
  - storageSystemInfo, 235
  - userRequestDescription, 236
- SRMv2\_\_srmPrepareToGetResponse, 237
  - arrayOfFileStatuses, 237
  - remainingTotalRequestTime, 237
  - requestToken, 237
  - returnStatus, 237
- SRMv2\_\_srmPrepareToGetResponse\_, 238
- SRMv2\_\_srmPrepareToPutRequest, 239
  - arrayOfFileRequests, 239
  - authorizationID, 239
  - soap, 239
  - userRequestDescription, 239
- SRMv2\_\_srmPrepareToPutResponse, 241
  - arrayOfFileStatuses, 241
  - remainingTotalRequestTime, 241
  - requestToken, 241
  - returnStatus, 241
- SRMv2\_\_srmPrepareToPutResponse\_, 242
- SRMv2\_\_srmPurgeFromSpaceRequest, 243
  - arrayOfSURLs, 243
  - authorizationID, 243
  - spaceToken, 243
  - storageSystemInfo, 243
- SRMv2\_\_srmPurgeFromSpaceResponse, 244
  - arrayOfFileStatuses, 244
  - returnStatus, 244
- SRMv2\_\_srmPurgeFromSpaceResponse\_, 245
- SRMv2\_\_srmPutDoneRequest, 246
  - arrayOfSURLs, 246
  - authorizationID, 246
  - requestToken, 246
- SRMv2\_\_srmPutDoneResponse, 247
  - arrayOfFileStatuses, 247
  - returnStatus, 247
- SRMv2\_\_srmPutDoneResponse\_, 248
- SRMv2\_\_srmReleaseFilesRequest, 249
  - arrayOfSURLs, 249
  - authorizationID, 249
  - doRemove, 249
  - requestToken, 249
- SRMv2\_\_srmReleaseFilesResponse, 250
  - arrayOfFileStatuses, 250
  - returnStatus, 250
- SRMv2\_\_srmReleaseFilesResponse\_, 251
- SRMv2\_\_srmReleaseSpaceRequest, 252
  - authorizationID, 252
  - forceFileRelease, 252
  - spaceToken, 252
  - storageSystemInfo, 252
- SRMv2\_\_srmReleaseSpaceResponse, 253
  - returnStatus, 253
- SRMv2\_\_srmReleaseSpaceResponse\_, 254
- SRMv2\_\_srmReserveSpaceRequest, 255
  - arrayOfExpectedFileSizes, 255
  - authorizationID, 255
  - desiredLifetimeOfReservedSpace, 255
  - desiredSizeOfGuaranteedSpace, 255
  - desiredSizeOfTotalSpace, 255
  - retentionPolicyInfo, 255
  - storageSystemInfo, 256
  - transferParameters, 256
  - userSpaceTokenDescription, 256
- SRMv2\_\_srmReserveSpaceResponse, 257
  - estimatedProcessingTime, 257
  - lifetimeOfReservedSpace, 257
  - requestToken, 257
  - retentionPolicyInfo, 257
  - returnStatus, 257
  - sizeOfGuaranteedReservedSpace, 257
  - sizeOfTotalReservedSpace, 258
  - spaceToken, 258
- SRMv2\_\_srmReserveSpaceResponse\_, 259
- SRMv2\_\_srmResumeRequestRequest, 260
  - authorizationID, 260
  - requestToken, 260
- SRMv2\_\_srmResumeRequestResponse, 261
  - returnStatus, 261
- SRMv2\_\_srmResumeRequestResponse\_, 262
- SRMv2\_\_srmRmdirRequest, 263
  - authorizationID, 263
  - recursive, 263
  - storageSystemInfo, 263
  - SURL, 263
- SRMv2\_\_srmRmdirResponse, 264
  - returnStatus, 264
- SRMv2\_\_srmRmdirResponse\_, 265
- SRMv2\_\_srmRmRequest, 266
  - arrayOfSURLs, 266
  - authorizationID, 266



- storageSystemInfo, 266
- SRMv2\_\_srmRmResponse, 267
  - arrayOfFileStatuses, 267
  - returnStatus, 267
- SRMv2\_\_srmRmResponse\_, 268
- SRMv2\_\_srmSetPermissionRequest, 269
  - authorizationID, 269
  - permissionType, 269
  - soap, 269
  - SURL, 269
- SRMv2\_\_srmSetPermissionResponse, 271
  - returnStatus, 271
- SRMv2\_\_srmSetPermissionResponse\_, 272
- SRMv2\_\_srmStatusOfBringOnlineRequestRequest, 273
  - arrayOfSourceSURLs, 273
  - authorizationID, 273
  - requestToken, 273
- SRMv2\_\_srmStatusOfBringOnlineRequestResponse, 274
  - arrayOfFileStatuses, 274
  - remainingDeferredStartTime, 274
  - remainingTotalRequestTime, 274
  - returnStatus, 274
- SRMv2\_\_srmStatusOfBringOnlineRequestResponse\_-, 275
- SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestRequest, 276
  - authorizationID, 276
  - requestToken, 276
- SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse, 277
  - arrayOfFileStatuses, 277
  - estimatedProcessingTime, 277
  - returnStatus, 277
- SRMv2\_\_srmStatusOfChangeSpaceForFilesRequestResponse\_-, 278
- SRMv2\_\_srmStatusOfCopyRequestRequest, 279
  - arrayOfSourceSURLs, 279
  - arrayOfTargetSURLs, 279
  - authorizationID, 279
  - requestToken, 279
- SRMv2\_\_srmStatusOfCopyRequestResponse, 280
  - arrayOfFileStatuses, 280
  - remainingTotalRequestTime, 280
  - returnStatus, 280
- SRMv2\_\_srmStatusOfCopyRequestResponse\_, 281
- SRMv2\_\_srmStatusOfGetRequestRequest, 282
  - arrayOfSourceSURLs, 282
  - authorizationID, 282
  - requestToken, 282
- SRMv2\_\_srmStatusOfGetRequestResponse, 283
  - arrayOfFileStatuses, 283
  - remainingTotalRequestTime, 283
  - returnStatus, 283
- SRMv2\_\_srmStatusOfGetRequestResponse\_, 284
- SRMv2\_\_srmStatusOfLsRequestRequest, 285
  - authorizationID, 285
  - count, 285
  - offset, 285
  - requestToken, 285
- SRMv2\_\_srmStatusOfLsRequestResponse, 286
  - details, 286
  - returnStatus, 286
- SRMv2\_\_srmStatusOfLsRequestResponse\_, 287
- SRMv2\_\_srmStatusOfPutRequestRequest, 288
  - arrayOfTargetSURLs, 288
  - authorizationID, 288
  - requestToken, 288
- SRMv2\_\_srmStatusOfPutRequestResponse, 289
  - arrayOfFileStatuses, 289
  - remainingTotalRequestTime, 289
  - returnStatus, 289
- SRMv2\_\_srmStatusOfPutRequestResponse\_, 290
- SRMv2\_\_srmStatusOfReserveSpaceRequestRequest, 291
  - authorizationID, 291
  - requestToken, 291
- SRMv2\_\_srmStatusOfReserveSpaceRequestResponse, 292
  - estimatedProcessingTime, 292
  - lifetimeOfReservedSpace, 292
  - retentionPolicyInfo, 292
  - returnStatus, 292
  - sizeOfGuaranteedReservedSpace, 292
  - sizeOfTotalReservedSpace, 293
  - spaceToken, 293
- SRMv2\_\_srmStatusOfReserveSpaceRequestResponse\_-, 294
- SRMv2\_\_srmStatusOfUpdateSpaceRequestRequest, 295
  - authorizationID, 295
  - requestToken, 295
- SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse, 296
  - lifetimeGranted, 296
  - returnStatus, 296
  - sizeOfGuaranteedSpace, 296
  - sizeOfTotalSpace, 296
- SRMv2\_\_srmStatusOfUpdateSpaceRequestResponse\_-, 297
- SRMv2\_\_srmSuspendRequestRequest, 298
  - authorizationID, 298
  - requestToken, 298
- SRMv2\_\_srmSuspendRequestResponse, 299
  - returnStatus, 299
- SRMv2\_\_srmSuspendRequestResponse\_, 300

- SRMv2\_\_srmUpdateSpaceRequest, 301
  - authorizationID, 301
  - newLifeTime, 301
  - newSizeOfGuaranteedSpaceDesired, 301
  - newSizeOfTotalSpaceDesired, 301
  - spaceToken, 301
  - storageSystemInfo, 301
- SRMv2\_\_srmUpdateSpaceResponse, 303
  - lifetimeGranted, 303
  - requestToken, 303
  - returnStatus, 303
  - sizeOfGuaranteedSpace, 303
  - sizeOfTotalSpace, 303
- SRMv2\_\_srmUpdateSpaceResponse\_, 304
- SRMv2\_\_TBringOnlineRequestFileStatus, 305
  - estimatedWaitTime, 305
  - fileSize, 305
  - remainingPinTime, 305
  - sourceSURL, 305
  - status, 305
- SRMv2\_\_TCopyFileRequest, 306
  - dirOption, 306
  - sourceSURL, 306
  - targetSURL, 306
- SRMv2\_\_TCopyRequestFileStatus, 307
  - estimatedWaitTime, 307
  - fileSize, 307
  - remainingFileLifetime, 307
  - sourceSURL, 307
  - status, 307
  - targetSURL, 307
- SRMv2\_\_TDirOption, 309
  - allLevelRecursive, 309
  - isSourceADirectory, 309
  - numOfLevels, 309
- SRMv2\_\_TEExtraInfo, 310
  - key, 310
  - value, 310
- SRMv2\_\_TGetFileRequest, 311
  - dirOption, 311
  - sourceSURL, 311
- SRMv2\_\_TGetRequestFileStatus, 312
  - estimatedWaitTime, 312
  - fileSize, 312
  - remainingPinTime, 312
  - sourceSURL, 312
  - status, 312
  - transferProtocolInfo, 312
  - transferURL, 312
- SRMv2\_\_TGroupPermission, 314
  - groupID, 314
  - mode, 314
- SRMv2\_\_TMetaDataPathDetail, 315
  - createdAtTime, 315
  - lastModificationTime, 315
  - path, 315
  - size, 315
  - soap, 315
  - status, 316
- SRMv2\_\_TMetaDataSpace, 317
  - guaranteedSize, 317
  - lifetimeAssigned, 317
  - lifetimeLeft, 317
  - owner, 317
  - retentionPolicyInfo, 317
  - spaceToken, 317
  - status, 318
  - totalSize, 318
  - unusedSize, 318
- SRMv2\_\_TPermissionReturn, 319
  - owner, 319
  - soap, 319
  - status, 319
  - surl, 319
- SRMv2\_\_TPutFileRequest, 320
  - expectedFileSize, 320
  - targetSURL, 320
- SRMv2\_\_TPutRequestFileStatus, 321
  - estimatedWaitTime, 321
  - fileSize, 321
  - remainingFileLifetime, 321
  - remainingPinLifetime, 321
  - status, 321
  - SURL, 321
  - transferProtocolInfo, 321
  - transferURL, 322
- SRMv2\_\_TRequestSummary, 323
  - requestToken, 323
  - soap, 323
  - status, 323
- SRMv2\_\_TRequestTokenReturn, 324
  - createdAtTime, 324
  - requestToken, 324
- SRMv2\_\_TRetentionPolicyInfo, 325
  - retentionPolicy, 325
  - soap, 325
- SRMv2\_\_TReturnStatus, 326
  - explanation, 326
  - statusCode, 326
- SRMv2\_\_TSupportedTransferProtocol, 327
  - attributes, 327
  - transferProtocol, 327
- SRMv2\_\_TSURLLifetimeReturnStatus, 328
  - fileLifetime, 328
  - pinLifetime, 328
  - status, 328
  - surl, 328
- SRMv2\_\_TSURLPermissionReturn, 329

- soap, 329
- status, 329
- surl, 329
- SRMv2\_\_TSURLReturnStatus, 330
  - status, 330
  - surl, 330
- SRMv2\_\_TTransferParameters, 331
  - soap, 331
- SRMv2\_\_TUserPermission, 332
  - mode, 332
  - userID, 332
- ssl\_
  - Arc::PayloadTLSStream, 104
- STACK\_OF
  - Arc::PayloadTLSStream, 104
- startTime
  - SRMv1Type\_\_RequestStatus, 156
- state
  - SRMv1Type\_\_RequestFileStatus, 154
  - SRMv1Type\_\_RequestStatus, 156
- status
  - SRMv2\_\_TBringOnlineRequestFileStatus, 305
  - SRMv2\_\_TCopyRequestFileStatus, 307
  - SRMv2\_\_TGetRequestFileStatus, 312
  - SRMv2\_\_TMetaDataPathDetail, 316
  - SRMv2\_\_TMetaDataSpace, 318
  - SRMv2\_\_TPermissionReturn, 319
  - SRMv2\_\_TPutRequestFileStatus, 321
  - SRMv2\_\_TRequestSummary, 323
  - SRMv2\_\_TSURLLifetimeReturnStatus, 328
  - SRMv2\_\_TSURLPermissionReturn, 329
  - SRMv2\_\_TSURLReturnStatus, 330
- statusArray
  - SRMv2\_\_ArrayOfTBringOnlineRequestFileStatus, 159
  - SRMv2\_\_ArrayOfTGetRequestFileStatus, 164
  - SRMv2\_\_ArrayOfTSURLLifetimeReturnStatus, 174
  - SRMv2\_\_ArrayOfTSURLReturnStatus, 176
- statusCode
  - SRMv2\_\_TReturnStatus, 326
- storageSystemInfo
  - SRMv2\_\_srmBringOnlineRequest, 185
  - SRMv2\_\_srmChangeSpaceForFilesRequest, 189
  - SRMv2\_\_srmCheckPermissionRequest, 192
  - SRMv2\_\_srmGetPermissionRequest, 205
  - SRMv2\_\_srmLsRequest, 223
  - SRMv2\_\_srmMkdirRequest, 226
  - SRMv2\_\_srmMvRequest, 229
  - SRMv2\_\_srmPrepareToGetRequest, 235
  - SRMv2\_\_srmPurgeFromSpaceRequest, 243
  - SRMv2\_\_srmReleaseSpaceRequest, 252
  - SRMv2\_\_srmReserveSpaceRequest, 256
  - SRMv2\_\_srmRmdirRequest, 263
  - SRMv2\_\_srmRmRequest, 266
  - SRMv2\_\_srmUpdateSpaceRequest, 301
- stream\_
  - Arc::PayloadHTTP, 99
- stream\_own\_
  - Arc::PayloadHTTP, 99
- stringArray
  - SRMv2\_\_ArrayOfString, 158
- submitTime
  - SRMv1Type\_\_RequestStatus, 156
- summaryArray
  - SRMv2\_\_ArrayOfTRequestSummary, 171
- SURL
  - SRMv1Type\_\_FileMetaData, 152
  - SRMv2\_\_srmMkdirRequest, 226
  - SRMv2\_\_srmRmdirRequest, 263
  - SRMv2\_\_srmSetPermissionRequest, 269
  - SRMv2\_\_TPutRequestFileStatus, 321
- surl
  - SRMv2\_\_TPermissionReturn, 319
  - SRMv2\_\_TSURLLifetimeReturnStatus, 328
  - SRMv2\_\_TSURLPermissionReturn, 329
  - SRMv2\_\_TSURLReturnStatus, 330
- surl\_failures
  - SRMClientRequest, 127
- surl\_statuses
  - SRMClientRequest, 127
- surls
  - SRMClientRequest, 127
- targetSpaceToken
  - SRMv2\_\_srmChangeSpaceForFilesRequest, 189
- targetSURL
  - SRMv2\_\_TCopyFileRequest, 306
  - SRMv2\_\_TCopyRequestFileStatus, 307
  - SRMv2\_\_TPutFileRequest, 320
- Timeout
  - SRMClient, 124
- tokenArray
  - SRMv2\_\_ArrayOfTRequestTokenReturn, 172
- toSURL
  - SRMv2\_\_srmMvRequest, 229
- totalSize
  - SRMv2\_\_TMetaDataSpace, 318
- transfer
  - Arc::HTTPSCClientConnector, 73
  - Arc::HTTPSCClientConnectorGlobus, 74
  - Arc::HTTPSCClientConnectorGSSAPI, 75
- transferParameters
  - SRMv2\_\_srmReserveSpaceRequest, 256
- transferProtocol

- SRMv2\_\_TSupportedTransferProtocol, 327
- transferProtocolInfo
  - SRMv2\_\_TGetRequestFileStatus, 312
  - SRMv2\_\_TPutRequestFileStatus, 321
- transferURL
  - SRMv2\_\_TGetRequestFileStatus, 312
  - SRMv2\_\_TPutRequestFileStatus, 322
- TURL
  - SRMv1Type\_\_RequestFileStatus, 154
- type
  - SRMv1Type\_\_RequestStatus, 156
- unsignedLongArray
  - SRMv2\_\_ArrayOfUnsignedLong, 178
- unusedSize
  - SRMv2\_\_TMetaDataSpace, 318
- uri\_
  - Arc::PayloadHTTP, 99
- urlArray
  - SRMv2\_\_ArrayOfAnyURI, 157
- userID
  - SRMv2\_\_TUserPermission, 332
- userPermissionArray
  - SRMv2\_\_ArrayOfTUserPermission, 177
- userRequestDescription
  - SRMv2\_\_srmBringOnlineRequest, 186
  - SRMv2\_\_srmCopyRequest, 195
  - SRMv2\_\_srmGetRequestTokensRequest, 211
  - SRMv2\_\_srmPrepareToGetRequest, 236
  - SRMv2\_\_srmPrepareToPutRequest, 239
- userSpaceTokenDescription
  - SRMv2\_\_srmGetSpaceTokensRequest, 217
  - SRMv2\_\_srmReserveSpaceRequest, 256
- value
  - SRMv2\_\_TExtraInfo, 310
- version
  - SRMClient, 125
- version\_major\_
  - Arc::PayloadHTTP, 99
- version\_minor\_
  - Arc::PayloadHTTP, 99
- versionInfo
  - SRMv2\_\_srmPingResponse, 233
- waiting\_time
  - SRMClientRequest, 127
- XACMLCondition
  - ArcSec::XACMLCondition, 339
- XACMLEvaluationCtx
  - ArcSec::XACMLEvaluationCtx, 340
- XACMLPolicy
  - ArcSec::XACMLPolicy, 344
- XACMLTarget
  - ArcSec::XACMLTarget, 347