

Schema **sc-3.0.xsd**

schema location: **G:\PEGASUS\schema\pegasus-docs\schemas\sc-3.0\sc-3.0.xsd**
 targetNamespace: **http://pegasus.isi.edu/schema/sitecatalog**

Elements Complex types Simple types Attr. groups
sitecatalog **DirectoryType** **ArchitectureType** **SystemInformationGroup**
 FileServerType **GridType**
 FileSystemType **JobType**
 StorageType **OSType**
 ProfileNamespace
 SchedulerType

element **sitecatalog**

diagram	<p>root element aggregating all sites information there is.</p>					
children	site					
attributes	Name version	Type xs:decimal	Use optional	Default 3.0	Fixed	Annotation
annotation	documentation root element aggregating all sites information there is.					

element **sitecatalog/site**

diagram	<p>Describes a single site</p>					
children	grid head-fs worker-fs replica-catalog profile					
attributes	Name handle arch os osrelease osversion glibc	Type xs:ID ArchitectureType OSType xs:string xs:string xs:string	Use required optional optional optional optional	Default x86 LINUX	Fixed	Annotation
annotation	documentation Describes a single site					

element **sitecatalog/site/grid**

diagram	<p>Each site supports various (usually two) jobmanagers.</p>					
attributes	Name type contact scheduler jobtype free-mem total-mem	Type GridType xs:string SchedulerType JobType xs:string xs:string	Use required required required optional optional optional	Default	Fixed	Annotation documentation The universe name is actually the primary key for the jobmanager identification. documentation The contact string is the secondary key for any job manager.

	max-count	xs:string	optional
	max-cpu-time	xs:string	optional
	running-jobs	xs:nonNegativeInteger	optional
	jobs-in-queue	xs:nonNegativeInteger	optional
	idle-nodes	xs:nonNegativeInteger	optional
	total-nodes	xs:nonNegativeInteger	optional
	arch	ArchitectureType	optional x86
	os	OSType	optional LINUX
	osrelease	xs:string	optional
	osversion	xs:string	optional
	glibc	xs:string	optional
annotation	documentation	Each site supports various (usually two) jobmanagers.	

element `sitecatalog/site/head-fs`

diagram	
children	scratch storage profile

element `sitecatalog/site/head-fs/scratch`

diagram	
type	StorageType
children	local shared

element `sitecatalog/site/head-fs/storage`

diagram	
type	StorageType
children	local shared

element `sitecatalog/site/head-fs/profile`

diagram	
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type	extension of xs:string					
attributes	Name namespace key	Type ProfileNamespace xs:string	Use required required	Default	Fixed	Annotation
annotation	documentation Administrative profile defaults associated with a site.					

element `sitecatalog/site/worker-fs`

diagram	<p>The diagram shows the <code>worker-fs</code> element connected to a container (oval) which is connected to <code>scratch</code> and <code>storage</code> elements. A dashed box labeled <code>profile</code> is connected to the <code>storage</code> element. Below the <code>profile</code> box, it says "0..∞" and "Administrative profile defaults associated with a site."</p>
children	scratch storage profile

element `sitecatalog/site/worker-fs/scratch`

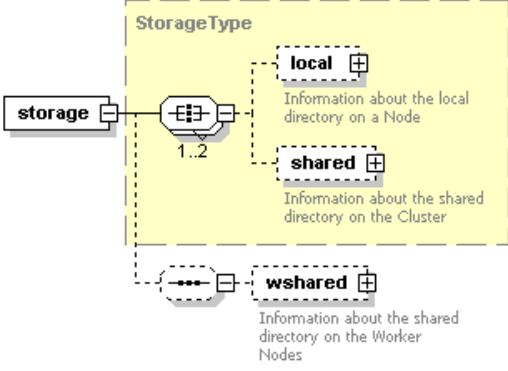
diagram	<p>The diagram shows the <code>scratch</code> element connected to a container (oval) which is connected to <code>local</code> and <code>shared</code> elements. A dashed box labeled <code>StorageType</code> is connected to the <code>shared</code> element. Below the <code>StorageType</code> box, it says "1..2" and "Information about the local directory on a Node". Below the <code>shared</code> element, it says "Information about the shared directory on the Cluster". Below the <code>shared</code> element, it says "Information about the shared directory on the Worker Nodes".</p>
type	extension of StorageType
children	local shared wshared

element `sitecatalog/site/worker-fs/scratch/wshared`

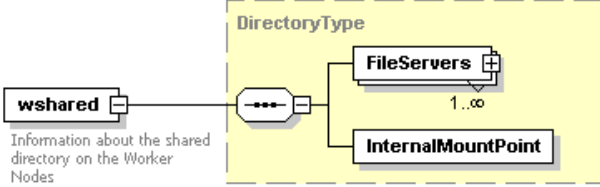
diagram	<p>The diagram shows the <code>wshared</code> element connected to a container (oval) which is connected to <code>FileServers</code> and <code>InternalMountPoint</code> elements. A dashed box labeled <code>DirectoryType</code> is connected to the <code>FileServers</code> element. Below the <code>FileServers</code> box, it says "1..∞". Below the <code>InternalMountPoint</code> element, it says "Information about the shared directory on the Worker Nodes".</p>
type	DirectoryType
children	FileServers InternalMountPoint
annotation	documentation Information about the shared directory on the Worker Nodes

element `sitecatalog/site/worker-fs/storage`

diagram	
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type	extension of StorageType
children	local shared wshared

element **sitecatalog/site/worker-fs/storage/wshared**

diagram	
type	DirectoryType
children	FileServers InternalMountPoint
annotation	documentation Information about the shared directory on the Worker Nodes


element **sitecatalog/site/worker-fs/profile**

diagram	<div><div><div><div></div><div>profile</div></div></div><div>Administrative profile defaults associated with a site.</div></div>					
type	extension of xs:string					
attributes	Name namespace key	Type ProfileNamespace xs:string	Use required required	Default	Fixed	Annotation
annotation	documentation Administrative profile defaults associated with a site.					

element **sitecatalog/site/replica-catalog**


diagram																			
children	alias connection																		
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>type</td><td>xs:string</td><td>required</td><td></td><td></td><td></td></tr><tr><td>url</td><td>xs:string</td><td>required</td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	type	xs:string	required				url	xs:string	required			
Name	Type	Use	Default	Fixed	Annotation														
type	xs:string	required																	
url	xs:string	required																	
annotation	documentation Each site may report to multiple LRCs.																		

element **sitecatalog/site/replica-catalog/alias**


diagram						
attributes	Name	Type	Use	Default	Fixed	Annotation

	name	xs:string	required	
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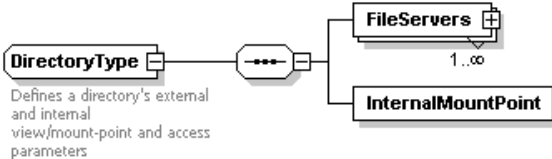
element `sitecatalog/site/replica-catalog/connection`

diagram				
type	extension of xs:string			
attributes	Name key	Type xs:string	Use required	Default Fixed Annotation

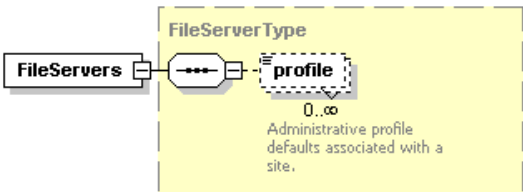
element `sitecatalog/site/profile`

diagram	 Administrative profile defaults associated with a site.			
type	extension of xs:string			
attributes	Name namespace key	Type ProfileNamespace xs:string	Use required required	Default Fixed Annotation
annotation	documentation Administrative profile defaults associated with a site.			


complexType `DirectoryType`

diagram	 Defines a directory's external and internal view/mount-point and access parameters			
children	FileServers InternalMountPoint			
used by	elements StorageType/local StorageType/shared sitecatalog/site/worker-fs/scratch/wshared sitecatalog/site/worker-fs/storage/wshared			
annotation	documentation Defines a directory's external and internal view/mount-point and access parameters			

element `DirectoryType/FileServers`

diagram	 Administrative profile defaults associated with a site.			
type	FileServerType			
children	profile			
attributes	Name protocol url mount-point	Type xs:string xs:anyURI xs:string	Use required required required	Default Fixed Annotation

element `DirectoryType/InternalMountPoint`

diagram				
type	FileSystemType			
attributes	Name mount-point free-size total-size	Type xs:string xs:string xs:string	Use required optional optional	Default Fixed Annotation

complexType `FileServerType`

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diagram						
children	profile					
used by	element DirectoryType/FileServers					
attributes	Name	Type	Use	Default	Fixed	Annotation
	protocol	xs:string	required			
	url	xs:anyURI	required			
	mount-point	xs:string	required			
annotation	documentation Describes the fileserver to access data from outside					

element **FileServerType/profile**

diagram						
type	extension of xs:string					
attributes	Name	Type	Use	Default	Fixed	Annotation
	namespace	ProfileNamespace	required			
	key	xs:string	required			
annotation	documentation Administrative profile defaults associated with a site.					

complexType **FileSystemType**

diagram						
used by	element DirectoryType/InternalMountPoint					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mount-point	xs:string	required			
	free-size	xs:string	optional			
	total-size	xs:string	optional			
annotation	documentation Defines the interal view/mount point and its characteristics					

complexType **StorageType**

diagram						
children	local shared					
used by	elements sitecatalog/site/head-fs/scratch sitecatalog/site/worker-fs/scratch sitecatalog/site/head-fs/storage sitecatalog/site/worker-fs/storage					
annotation	documentation Describes the filesystem layout (shared and local) on a site					

element **StorageType/local**

diagram						

type	DirectoryType
children	FileServers InternalMountPoint
annotation	documentation Information about the local directory on a Node

element **StorageType/shared**

diagram	
type	DirectoryType
children	FileServers InternalMountPoint
annotation	documentation Information about the shared directory on the Cluster

simpleType **ArchitectureType**

type	restriction of xs:NMTOKENS
used by	attribute SystemInformationGroup/@arch
facets	enumeration x86 enumeration intel32 enumeration x86_64 enumeration intel64 enumeration ppc enumeration ppc_64 enumeration ia64 enumeration ia32 enumeration sparcv7 enumeration sparcv9 enumeration amd64
annotation	documentation Defines the valid architecture types

simpleType **GridType**

type	restriction of xs:NMTOKEN
used by	attribute sitecatalog/site/grid/@type
facets	enumeration gt2 enumeration gt4 enumeration condor enumeration condor-c enumeration pbs enumeration lsf
annotation	documentation Different Grid Type's Supported by Pegasus

simpleType **JobType**

type	restriction of xs:NMTOKEN
used by	attribute sitecatalog/site/grid/@jobtype
facets	enumeration compute enumeration auxillary enumeration transfer enumeration register enumeration cleanup
annotation	documentation Type of Jobs in the executable workflow this Grid Supports

simpleType **OSType**

type	restriction of xs:NMTOKENS
used by	attribute SystemInformationGroup/@os
facets	enumeration LINUX enumeration SUNOS enumeration AIX enumeration MACOSX enumeration WINDOWS

annotation	documentation Defines the valid OS types
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simpleType **ProfileNamespace**

type	restriction of xs:NMTOKEN
used by	attributes sitecatalog/site/head-fs/profile/@namespace sitecatalog/site/worker-fs/profile/@namespace sitecatalog/site/profile/@namespace FileServerType/profile/@namespace
facets	enumeration pegasus enumeration condor enumeration dagman enumeration env enumeration hints enumeration globus
annotation	documentation defines the legal namespaces of execution profiles.

simpleType **SchedulerType**

type	restriction of xs:NMTOKEN
used by	attribute sitecatalog/site/grid/@scheduler
facets	enumeration Fork enumeration PBS enumeration LSF enumeration Condor
annotation	documentation Different Schedulers on the Grid

attributeGroup **SystemInformationGroup**

Attribute Group		System Information Group				
used by	elements sitecatalog/site/grid sitecatalog/site					
attributes	Name	Type	Use	Default	Fixed	Annotation
	arch	ArchitectureType	optional	x86		
	os	OSType	optional	LINUX		
	osrelease	xs:string	optional			
	osversion	xs:string	optional			
	glibc	xs:string	optional			
	annotation	documentation Defines the attributes to define system information				

XML Schema documentation generated with [XMLSPY](http://www.altova.com/xmlspy) Schema Editor <http://www.altova.com/xmlspy>