

Schema **sc-3.0.xsd**

schema location: <C:\Documents and Settings\gmehta\Desktop\sc-3.0.1.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						
children	site					
attributes	Name	Type	Use	Default	Fixed	Annotation
	version	xs:decimal	optional	3.0		
annotation	documentation root element aggregating all sites information there is.					

element **sitecatalog/site**

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

element **sitecatalog/site/grid**

diagram						
	Each site supports various (usually two) jobmanagers.					

attributes	Name	Type	Use	Default	Fixed	Annotation
	type	GridType	required			documentation The universe name is actually the primary key for the jobmanager identification.
	contact	xs:string	required			documentation The contact string is the secondary key for any job manager.
	scheduler	SchedulerType	required			
	jobtype	JobType	optional			
	free-mem	xs:string	optional			
	total-mem	xs:string	optional			
	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

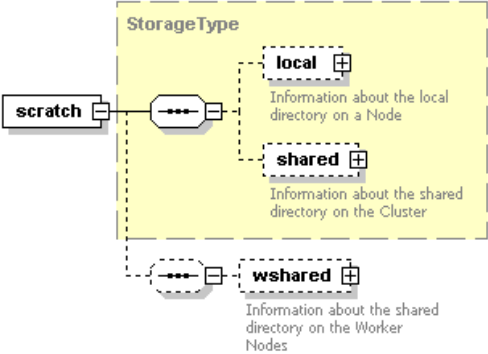
element **sitecatalog/site/head-fs/profile**

diagram	 <p>Administrative profile defaults associated with a site.</p>					
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.					

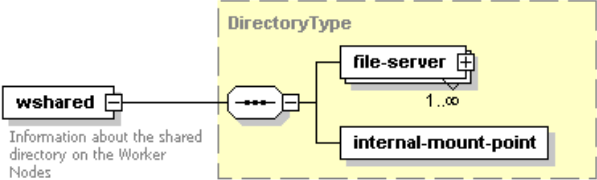
element **sitecatalog/site/worker-fs**

diagram	 <p>0..∞ Administrative profile defaults associated with a site.</p>					
children	scratch storage profile					

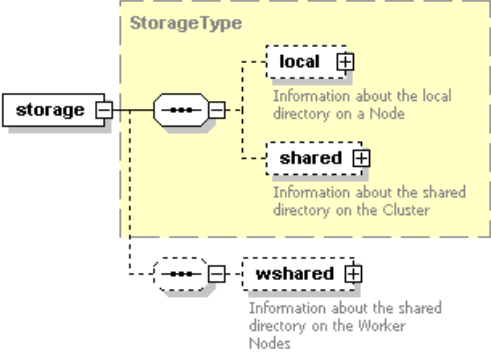
element **sitecatalog/site/worker-fs/scratch**

diagram	 <p>Information about the local directory on a Node</p> <p>Information about the shared directory on the Cluster</p> <p>Information about the shared directory on the Worker Nodes</p>					
type	extension of StorageType					
children	local shared wshared					

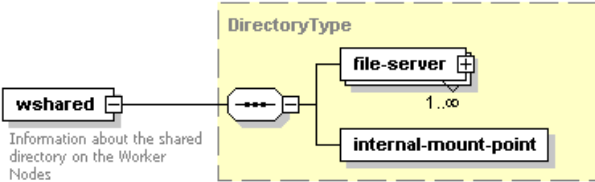
element **sitecatalog/site/worker-fs/scratch/wshared**

diagram	 <p>Information about the shared directory on the Worker Nodes</p> <p>1..∞</p>					
type	DirectoryType					
children	file-server internal-mount-point					
annotation	documentation Information about the shared directory on the Worker Nodes					

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

diagram	 <p>The diagram shows a storage element connected to a StorageType container. Inside StorageType, there are three sub-elements: local (Information about the local directory on a Node), shared (Information about the shared directory on the Cluster), and wshared (Information about the shared directory on the Worker Nodes).</p>
type	extension of StorageType
children	local shared wshared

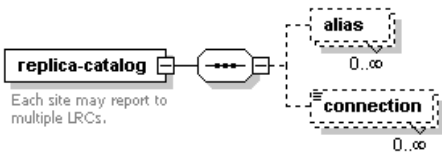
element **sitecatalog/site/worker-fs/storage/wshared**

diagram	 <p>The diagram shows a wshared element connected to a DirectoryType container. Inside DirectoryType, there are two sub-elements: file-server (with a cardinality of 1..∞) and internal-mount-point.</p>
type	DirectoryType
children	file-server internal-mount-point
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	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>namespace</td><td>ProfileNamespace</td><td>required</td><td></td><td></td><td></td></tr><tr><td>key</td><td>xs:string</td><td>required</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	namespace	ProfileNamespace	required				key	xs:string	required			
Name	Type	Use	Default	Fixed	Annotation														
namespace	ProfileNamespace	required																	
key	xs:string	required																	
annotation	documentation Administrative profile defaults associated with a site.																		


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

diagram	 <p>The diagram shows a replica-catalog element connected to a container. Inside the container, there are two sub-elements: alias (with a cardinality of 0..∞) and connection (with a cardinality of 0..∞).</p>																		
children	alias connection																		
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><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></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 name	Type xs:string	Use required	Default	Fixed	Annotation

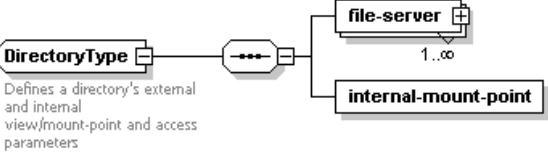
element **sitecatalog/site/replica-catalog/connection**

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

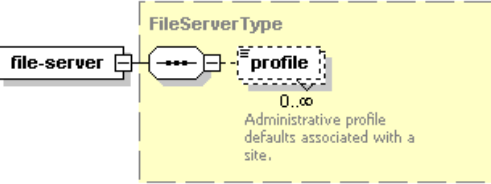
element **sitecatalog/site/profile**

diagram						
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						
children	file-server internal-mount-point					
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/file-server**

diagram						
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/internal-mount-point**

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

complexType **FileServerType**

diagram						
children	profile					
used by	element DirectoryType/file-server					
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/internal-mount-point					
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 internal 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
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element StorageType/local

diagram	
type	DirectoryType
children	file-server internal-mount-point
annotation	documentation Information about the local directory on a Node

element StorageType/shared

diagram	
type	DirectoryType
children	file-server internal-mount-point
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 x86_64 enumeration ppc enumeration ppc_64 enumeration ia64 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 gt5 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
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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

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 enumeration SGE enumeration unknown
annotation	documentation Different Schedulers on the Grid

attributeGroup **SystemInformationGroup**

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					