

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	<p>Diagram showing the sitecatalog element (multiplicity 1..∞) containing the site element (multiplicity 1..∞). The sitecatalog is described as the root element aggregating all sites information there is.</p>					
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**

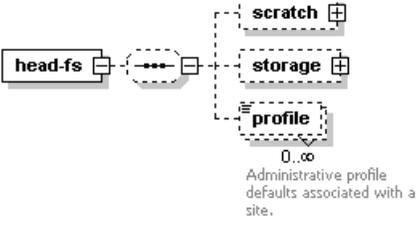
diagram	<p>Diagram showing the site element (multiplicity 1..∞) containing several child elements: grid (multiplicity 0..∞), head-fs, worker-fs, replica-catalog (multiplicity 0..∞), and profile (multiplicity 0..∞). The site is described as describing a single site. The grid is described as supporting various (usually two) jobmanagers. The replica-catalog is described as reporting to multiple LRCs. The profile is described as administrative profile defaults associated with a site.</p>					
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**

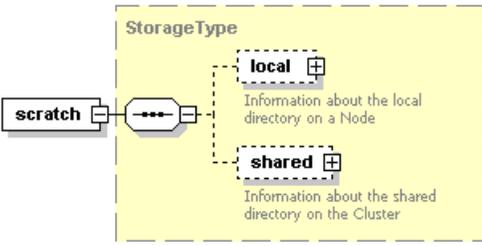
diagram	<p>Diagram showing the grid element (multiplicity 0..∞). It is described as supporting various (usually two) jobmanagers.</p>					
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attributes	Name	Type	Use	Default	Fixed	Annotation
	type	GridType	required			documentation The universe name is 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.					

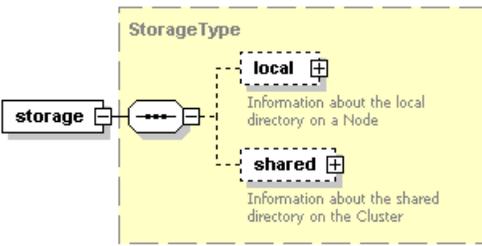
element **sitecatalog/site/head-fs**

diagram	
children	scratch storage profile

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

diagram	
type	StorageType
children	local shared

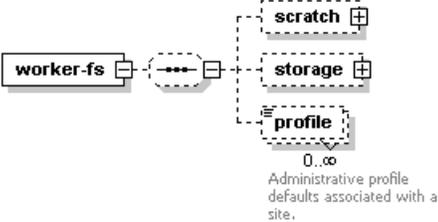
element **sitecatalog/site/head-fs/storage**

diagram	
type	StorageType
children	local shared

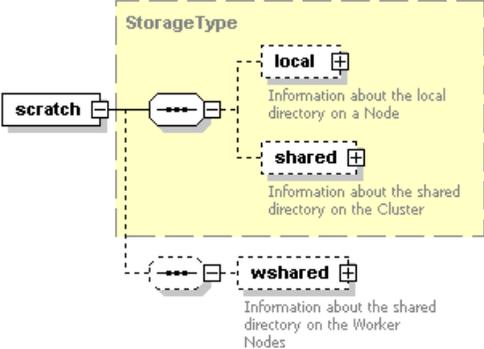
element **sitecatalog/site/head-fs/profile**

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

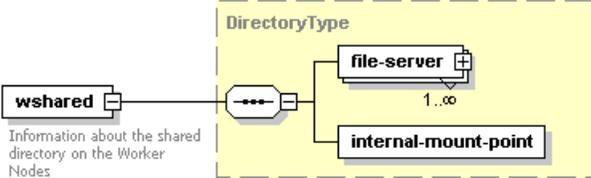
element **sitecatalog/site/worker-fs**

diagram						
children	scratch storage profile					

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

diagram						
type	extension of StorageType					
children	local shared wshared					

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

diagram						
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	
type	extension of StorageType
children	local shared wshared

element [sitecatalog/site/worker-fs/storage/wshared](#)

diagram	
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																			
type	extension of xs:string																		
attributes	<table border="1"> <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>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> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	namespace	ProfileNamespace	required				key	xs:string	required			
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namespace	ProfileNamespace	required																	
key	xs:string	required																	
annotation	documentation Administrative profile defaults associated with a site.																		

element [sitecatalog/site/replica-catalog](#)

diagram																			
children	alias connection																		
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Name	Type	Use	Default	Fixed	Annotation														
type	xs:string	required																	
uri	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	<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.					

complexType **DirectoryType**

diagram	<p>Defines a directory's external and internal view/mount-point and access parameters</p>					
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	<p>Administrative profile defaults associated with a site.</p>					
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 **OType**

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																																				
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