

Schema sc-2.0.xsd

schema location: G:\GRIPHYN\PEGASUS\sc-2.0.xsd
 targetNamespace: http://pegasus.isi.edu/schema/sitecatalog

Elements Simple types Attr. groups
 sitecatalog ProfileNamespace GlobusVersionInfo

element sitecatalog

diagram	<p>Diagram description: A root element sitecatalog (1..n) contains one or more site elements (1..n). The sitecatalog is described as 'root element aggregating all site information there is.' and the site is described as 'Describes a single site.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
children	site					
attributes	Name	Type	Use	Default	Fixed	Annotation
	version	xs:decimal	optional	1.0		
annotation	documentation root element aggregating all sites information there is.					

element sitecatalog/site

diagram	<p>Diagram description: A site element (1..n) contains several optional elements: profile (1..n), lrc (1..n), gridftp (1..n), jobmanager (1..n), and workdirectory (1..n). Annotations: profile is 'Administrative profile defaults associated with a site.'; lrc is 'Each site may report to multiple LRCs.'; gridftp is 'Each site may have multiple gridftp servers.'; jobmanager is 'Each site supports various (usually two) jobmanagers.'; workdirectory is 'Each site may have one and only one work directory mount point.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
children	profile lrc gridftp jobmanager workdirectory					
attributes	Name	Type	Use	Default	Fixed	Annotation
	handle	xs:ID	required			
	gridlaunch	xs:string	optional			documentation This is the path to grid launch. As attributes are optional, each pool can have at most one grid launch path. More does not make sense, unless there are different launchers for different remote schedulers, and a pool supports more than two (fork + one other) remote schedulers.
	sysinfo	xs:string	optional	INTEL32-LINUX		
annotation	documentation Describes a single site					

element sitecatalog/site/profile

diagram	<p>Diagram description: A profile element (1..n). Annotation: 'Administrative profile defaults associated with a site.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
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.					

element sitecatalog/site/lrc

diagram	<p>Diagram description: An lrc element (1..n). Annotation: 'Each site may report to multiple LRCs.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
attributes	Name	Type	Use	Default	Fixed	Annotation
	url	xs:anyURI	required			
annotation	documentation Each site may report to multiple LRCs.					

element sitecatalog/site/gridftp

diagram	<p>Diagram description: A gridftp element (1..n) contains one bandwidth element (1..n). Annotations: gridftp is 'Each site may have multiple gridftp servers.'; bandwidth is 'Stores the bandwidth information related to each gridftp server.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
children	bandwidth					
attributes	Name	Type	Use	Default	Fixed	Annotation
	url	xs:anyURI	required			documentation The URL (actually, it may be more a URI, but hey, so what) is the access URL to the gridftp server. Each pool may have multiple gridftp servers, or run multiple versions of Globus on different ports.
	storage	xs:string	optional	/		documentation This element is the storage mount point prefix. Of course, this may get turned over into other things, augmented by user and system requirements etc. I believe that default works quite well for default Globus setups.
	major	xs:positiveInteger	required			
	minor	xs:nonNegativeInteger	required			
	patch	xs:nonNegativeInteger	optional			
	total-size	xs:decimal	optional			
	free-size	xs:decimal	optional			
annotation	documentation Each site may have multiple gridftp servers.					

element sitecatalog/site/gridftp/bandwidth

diagram	<p>Diagram description: A bandwidth element (1..n). Annotation: 'Stores the bandwidth information related to each gridftp server.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
attributes	Name	Type	Use	Default	Fixed	Annotation
	dest-subnet	xs:string	required			
	avg-bandwidth	xs:float	required			
	max-bandwidth	xs:float	required			
	min-bandwidth	xs:float	required			
	avg-bandwidth-range1	xs:float	optional			
	avg-bandwidth-range2	xs:float	optional			
	avg-bandwidth-range3	xs:float	optional			
	avg-bandwidth-range4	xs:float	optional			
annotation	documentation Stores the bandwidth information related to each gridftp server.					

element sitecatalog/site/jobmanager

diagram	<p>Diagram description: A jobmanager element (1..n). Annotation: 'Each site supports various (usually two) jobmanagers.'</p>					
namespace	http://pegasus.isi.edu/schema/sitecatalog					
attributes	Name	Type	Use	Default	Fixed	Annotation
	universe	xs:token	required			documentation The universe name is actually the primary key for the jobmanager identification.
	url	xs:string	required			documentation The contact string is the secondary key for any job manager.
	major	xs:positiveInteger	required			
	minor	xs:nonNegativeInteger	required			
	patch	xs:nonNegativeInteger	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			
	os	xs:string	optional			
	arch	xs:string	optional			
	type	xs:string	optional			
	subnet	xs:string	optional			
annotation	documentation Each site supports various (usually two) jobmanagers.					

element sitcatalog/site/workdirectory						
diagram	<div><div>workdirectory</div><div>Each site may have one and only one work directory mount point.</div></div>					
namespace	http://pegasus.isi.edu/schema/sitcatalog					
type	extension of xs:string					
attributes	Name	Type	Use	Default	Fixed	Annotation
	total-size	xs:decimal	optional			
	free-size	xs:decimal	optional			
annotation	documentation Each site may have one and only one work directory mount point.					

simpleType ProfileNamespace						
namespace	http://pegasus.isi.edu/schema/sitcatalog					
type	restriction of xs:NMTOKEN					
used by	attribute sitcatalog/site/profile/\$namespace					
facets	enumeration pegasus enumeration condor enumeration diagnan enumeration env enumeration korte enumeration globus					
annotation	documentation defines the legal namespaces of execution profiles.					

attributeGroup GlobusVersionInfo						
namespace	http://pegasus.isi.edu/schema/sitcatalog					
used by	elements sitcatalog/site/griftu sitcatalog/site/jobmanager					
attributes	Name	Type	Use	Default	Fixed	Annotation
	major	xs:positiveInteger	required			
	minor	xs:nonNegativeInteger	required			
	patch	xs:nonNegativeInteger	optional			
annotation	documentation A set of attributes to define a Globus version.					

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