

Alice use of Storage Classes

Artem for Alice

Using slides of Pablo Saiz

- Two classes for the Storage Adaptor (SA):
 - Custodial: very low probability of losing a file
 - Replica: high probability of loss, but data can be replaced
- Implemented in AliEn v2-12
- Mapping from SRM Classes:
 - Tape0Disk1 -> Replica
 - Tape1Disk0 -> Custodial
 - Tape1Disk1 -> Two different SA

- Define the QoS of the SA
- In case of a replica, define the close custodial
- If you want to have both, define two SA (one of them virtual)

dn	name=CNAF,ou=SE,ou=Services,ou=LCG,ou=
	top
objectClass	AliEnSOAPServer
	AliEnMSS
	AliEnSE
host	ui01-alice.cr.cnaf.infn.it
port	8092
certsubject	
name	CNAF
mss	SRM
savendir	/castor/cnaf.infn.it/grid/lcg/alice/alien
options	host=sc.cr.cnaf.infn.it
tmpdir	
lvmdatabase	lfc-sc.cr.cnaf.infn.it/lfc/_grid_alice_localtest
uploadEndpoint	
ioDaemons	xrootd:port=5443
environment	
retentionPolicy	custodial
closeCustodial	

- Users can define in the JDL
 - Name of SA
 - QoS of the SA
 - Nothing -> closest replica SA will be used

```
OutputArchive = {"log_archive:stdout,stderr@replica",  
                "root_archive:*.root@custodial", };
```

- If the user specifies an SA, and that SA is not accessible when the job finishes:
 - The output will be saved in another SA (replica?)
 - The job will be marked as 'DONE_WARNING'

Other things

- File expiration
 - Default lifetime
- Separation of raw from the rest of data
 - Separate “Custodial” SA
- Staging strategy is being defined