

Storage Requirements for CCRC08 for LHCb.

This page complements the generic GSSD LHCb page that can be found at this page.

Further details can be found [here](#) and [here](#). In order for LHCb to perform tests during the CCRC08 exercise in February 2008 the following requirements should be satisfied by Tier-1s. Please note that the spaces should not reuse the current TOD1 SRM v1 space.

For details about the sizes of the various space tokens, please refer to this document .

1. Provide the following storage classes:
 - ◆ **REPLICA-ONLINE** (Tape0Disk1)
 - ◆ **CUSTODIAL-NEARLINE** (Tape1Disk0)
 - ◆ **CUSTODIAL-ONLINE** (Tape1Disk1)
2. Define the following space token descriptions:
 - ◆ **LHCb_RAW** for the CUSTODIAL-NEARLINE storage class to be used for Real data (RAW)
 - ◆ **LHCb_RDST** for the CUSTODIAL-NEARLINE storage class to be used for Reprocessing
 - ◆ **LHCb_DST** for the REPLICA-ONLINE storage class to be used for Real data (DST)
 - ◆ **LHCb_FAILOVER** for the REPLICA-ONLINE storage class
 - ◆ **LHCb_M-DST** for the CUSTODIAL-ONLINE storage class to be used for Reprocessing

In order for LHCb to perform tests during the CCRC08 exercise in February 2008 the following requirements should be satisfied by the Tier-0:

1. Provide the following storage classes:
 - ◆ **REPLICA-ONLINE** (Tape0Disk1)
 - ◆ **CUSTODIAL-NEARLINE** (Tape1Disk0)
 - ◆ **CUSTODIAL-ONLINE** (Tape1Disk1)
2. Define the following space token descriptions:
 - ◆ **LHCb_RAW** for the CUSTODIAL-NEARLINE storage class to be used for Real data (RAW)
 - ◆ **LHCb_RDST** for the CUSTODIAL-NEARLINE storage class to be used for Reprocessing
 - ◆ **LHCb_FAILOVER** for the REPLICA-ONLINE storage class (5TB)
 - ◆ **LHCb_M-DST** for the CUSTODIAL-ONLINE storage class to be used for Reprocessing

Furthermore, the following requirements must be satisfied:

1. Make available an LHCb specific path (ex. /lhcb) for both tape and disk. LHCb will then create further paths specifying the desired space token, provided that tokens will be decided somewhere in some top levels and will not change for data stored in the leaves of that top directory.
2. Enable the following group/roles to write into the spaces above. Please make sure that users with the role described below can write and remove files created by other users with the same role:
 - ◆ */lhcb/Role=production*
3. Publish in the GLUE schema the LHCb tokens and path in the GlueVOInfo objects
4. Publish the size of the Storage Area correspondent to a specific Storage Class both total and available.

For publishing information in the GLUE schema, you can find an example [here](#).

Concerning the access to those spaces, the following table indicates which access will be used (LHCb_USER is not explicitly for CCRC'08, but needed soon):

	Storage Class	TRANSFER_WAN	TRANSFER_LAN	PROCESSING_LAN	PROCESSING
LHCb_RAW	T1D0	OUT(CERN)/IN(Tier1)	IN(CERN)	YES	-

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LHCb_RDST	T1D0	-	IN	YES	-
LHCb_M-DST	T1D1	OUT	IN	YES	-
LHCb_DST	T0D1	IN	-	YES	-
LHCb_FAILOVER	T0D1	IN/OUT	-	-	-
LHCb_USER	T0D1	IN	IN	YES	-

LHCb have a Twiki page for CCRC08 that can be found here

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