

Configuration of the Storage Network Switches in D2

Storage Racks to

Each of the racks in the series D2B01, D2B02 . . . D2B05 maps to one complete **row of racks** in D1. Please refer to <https://twiki.cern.ch/twiki/bin/view/LHCb/StorageUplink> for more information and examples.

Let us consider the example of one of the racks, D2B01 (which maps to row 'E' in D1). The patching for this rack must be done as follows.

Port(s)	Assignment
24	management link that is patched to sw-d2d05-01 (the management switch)
21	link that is patched to sw-d2d07-s1 (the storage aggregation switch in d2d07)
1 - 11	1 Gbps data links from switches sw-d1e01-d1, sw-d1e02-d1, sw-d1e03-d1, . . . , sw-d1e11-d1 from racks D1E01, D1E02, D1E03, D1E11 respectively (except D1E05, and sw-d1e05-d1 which don't exist - 05 is an empty position).

Note: If at any point, the single 1 Gbps link between sw-d2d07-s1 and each of sw-d2d0[1-5]-s1 seems insufficient, link 22 from each of sw-d2d0[1-5]-s1 may be trunked with link 21 (the existing link) for higher bandwidth.

The above configuration can be applied to the remaining racks in D2B. For D2B02, substitute D1Exx with D1Dxx, and sw-d1exx with sw-d1dxx. Likewise, for D2B04, substitute D1Exx with D1Bxx, and sw-d1exx with sw-d1bxx. All the switches in D2B01-05 must be patched to the aggregation switch sw-d2d07-s1.

Aggregation Switch sw-d2b07-s1

Port(s)	Assignment
1 - 2	trunked, patched to sw-d2b01-s1
3 - 4	trunked, patched to sw-d2b02-s1
5 - 6	trunked, patched to sw-d2b03-s1
7 - 8	trunked, patched to sw-d2b04-s1
9 - 10	trunked, patched to sw-d2b05-s1
24	patched to the management switch sw-d2d05-01
A1 (10 Gbps fiber)	patched to sw-ux-01

VLANs

Except the ones that are trunked, there is only one link between any given pair of switches. Therefore, there is no real need for VLANs here, except for the controls/data separation.

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