



CRIC help pages for network information

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Bandwidth values in CRIC

Written two help pages to help user correctly fill the records about bandwidth values in CRIC

- <https://twiki.cern.ch/twiki/bin/view/LHCONE/CRICguideNetSite>
- <https://twiki.cern.ch/twiki/bin/view/LHCONE/CRICguideNetworkRoute>

WAN, LHCONE and LHCOPN bandwidth values

- The **WAN-bandwidth** field indicates the total maximum bandwidth to external networks, summing up the bandwidth of **all the Internet, LHCOPN and LHCONE links**. In case of redundant links, indicate the amount of usable bandwidth
- The **LHCONE-bandwidth** indicates the maximum bandwidth that can be reached by the LHCONE uplink
- The **LHCOPN-bandwidth** indicates the maximum bandwidth that can be reached by the LHCOPN uplink

When $WAN == LHCONE + LHCOPN$, it means the bandwidth of the uplink is shared. Since the LHCOPN bandwidth must be always guaranteed there should not be any ambiguity.

Examples

- A) **No LHCONE/OPN:** A site is connected to its NREN with one 100Gbps link for general Internet, it is not connected to LHCONE or LHCOPN. In this case indicate: WAN=100 LHCONE=-1 LHCOPN=-1
- B) **Shared LHCONE-Internet link:** a site is connected to its NREN with one 100Gbps link; the link is configured with two VLANs, one for LHCONE and one for the general Internet. Potentially both the networks can peak at 100Gbps, but not at the same time. In this case indicate: WAN=100 LHCONE=100 LHCOPN=-1
- C) **Dedicated LHCONE link:** a site is connected to its NREN with two 100Gbps links; one link is dedicated to Internet and the other link is dedicated to LHCONE. Both the networks can reach 100Gbps at the same time. In this case indicate: WAN=200 LHCONE=100 LHCOPN=-1
- D) **Shared LHCONE-Internet, LHCOPN:** a site is connected to its NREN with two 100Gbps links; one link is shared between Internet and LHCONE. The second one is dedicated to LHCOPN. The three networks can reach 100Gbps, but LHCONE and Internet are limited to a total of 100Gbps. In this case indicate: WAN=200 LHCONE=100 LHCOPN=100
- E) **Active/Passive backup:** a site is connected to its NREN with two 100Gbps links; the two links are one the backup of the other in active/passive configuration; the two links are configured identically with two VLANs, one for LHCONE and one for the general Internet. Potentially both the networks can peak at 100Gbps, but not at the same time. In this case indicate: WAN=100 LHCONE=100 LHCOPN=-1
- F) **Active/Active backup:** a site is connected to its NREN with two 100Gbps links; the two links are one the backup of the other in active/active configuration; the two links are configured identically with two VLANs, one for LHCONE and one for the general Internet. Potentially both the networks can peak at 200Gbps, but not at the same time. In this case indicate: WAN=200 LHCONE=200 LHCOPN=-1

Questions?

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