

# Resync of Tier1s for disaster recovery experience and feedback

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# Experience

- Second time I collaborate in synchronizing a Tier1 database
  - ASGC
  - SARA
- It is a tested and working procedure
  - Compare db parameters between the two sites
  - Identify the list of tablespaces to copy over
  - Stop apply processes
  - Make the selected tablespaces read only
  - Copy data files over
  - Make tablespaces read write
  - Hand over the start up of the streaming to CERN
- The interesting part is done by CERN 😄



# Experience

- The time to copy the files over is unpredictable. It took ~18hours
- The experiments involved need to be notified and we have to wait to get the go ahead . **This is the most difficult part of all the procedure !**

# Feedback

- The experiments are not very happy to know that the streaming is down especially during the non LHC technical stops:
  - We should look into a possible alternative synchronization method where we do not need to stop the streaming or reduce at minimum the downtime.
- Possible solution to reduce the streaming downtime.....
  - Use RMAN backup
  - Copy tablespaces on a local disk
    - Stop streaming.
    - Copy tablespaces and metadata on a local storage.
    - Start streaming.
    - Copy over the tablespaces with related metadata from the local storage.
  - Data Guard
- RAL is always pleased to help other Tier 1 in the synchronization process. 😄

