

# JUNO Network challenge

## Second meeting

### Minutes

## Participants

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## Discussion

Presented and reviewed data centers network schemas, without comments.

Monitoring system and metrics. After some discussion in the following the decisions:

- Metrics
  - occupied bandwidth in/out
  - GEANT is checking if they can provide flows; if yes subnet and/or ip addresses involved must be provided
- Monitoring URL
  - For the moment should be enough consider GEANT and data centers routers; if others are available, they will be considered
  - GEANT public link to monitoring page is <https://public-brian.geant.org/d/home/home?orgId=5&search=open&folder=current>
  - We have a similar link for CNAF
  - **Other data centers are required to provide similar links by Mar 11, specifying if the link can be published publically or should be kept reserved**
  - JUNO: check perfonar infrastructure
- Graphana
  - The possibility that a graphana system read data from other graphana servers looks like restricted to enterprise version
  - Please, check internally if exist the possibility to provide monitoring data to a central graphana system to implement a global dashboard, also useful in future monitoring activities

Actual network challenge. We agreed on

- first round based on exchanging 8000 files, 5GB/file, 40TB in total

- The exchange involve data centers in couples:
  - CNAF->IHEP
  - CNAF->IN2P3
  - CNAF->JINR
  - IHEP->CNAF
  - IHEP->IN2P3
  - IHEP->JINR
  - IN2P3->CNAF
  - IN2P3->IHEP
  - IN2P3->JINR
  - JINR->CNAF
  - JINR->IHEP
  - JINR->IN2P3
- This week we start to schedule a date for each test
  - **starting from Mar 14**
  - trying to avoid that a center is involved at the same time in 2 or more exchanges
- Another meeting to be scheduled after data collection
- A report on results should be presented in LHCONE meeting end of March

Other decisions:

- second round test involving tape, before Jun 30
- third round test should be a long term test
  - it should not affect normal users
  - to monitor transfer performances