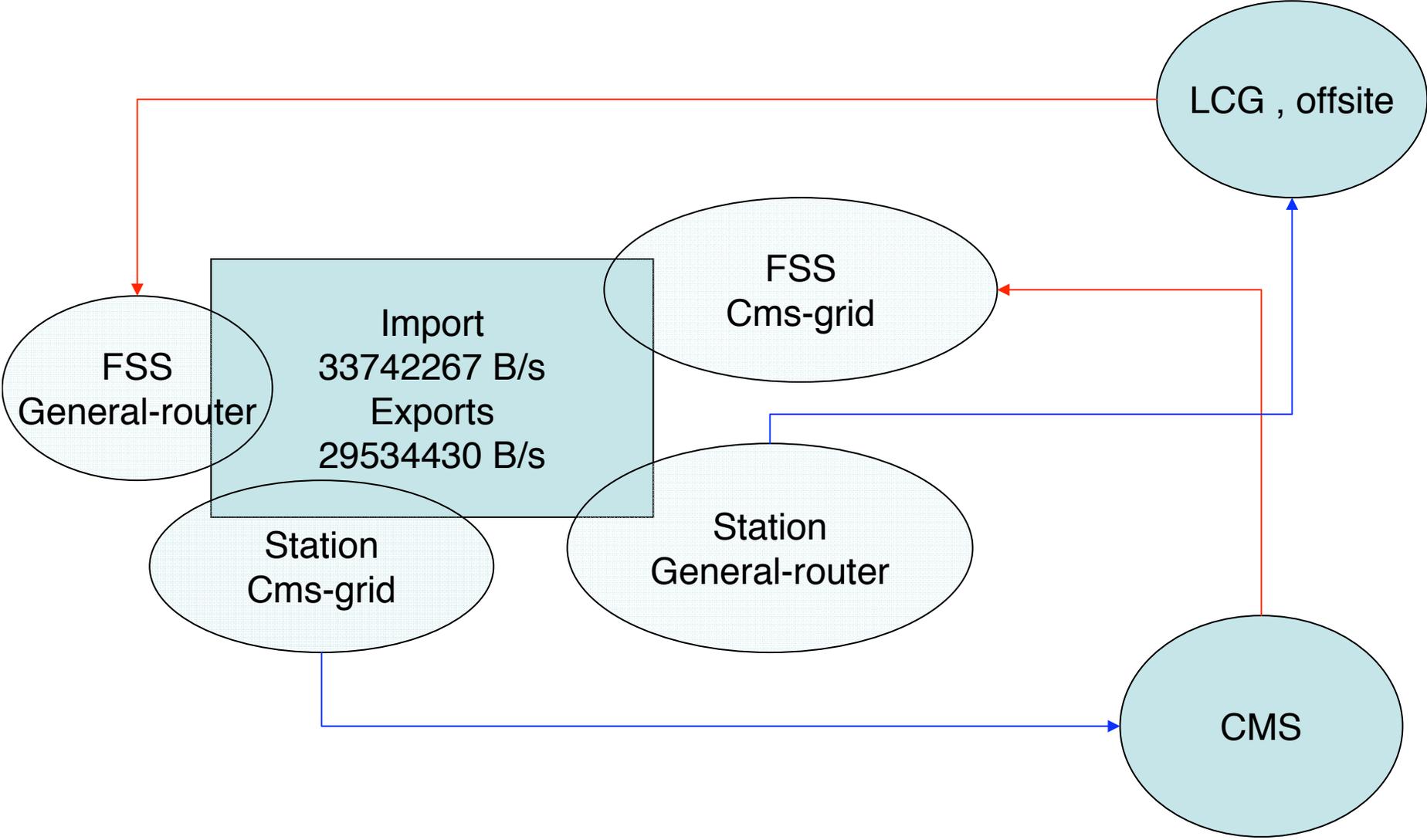


Refixing HW and SAM deployment

Legend

- Blue links : both input data and service links
- Red links : both output data and service links
- Black links : data links

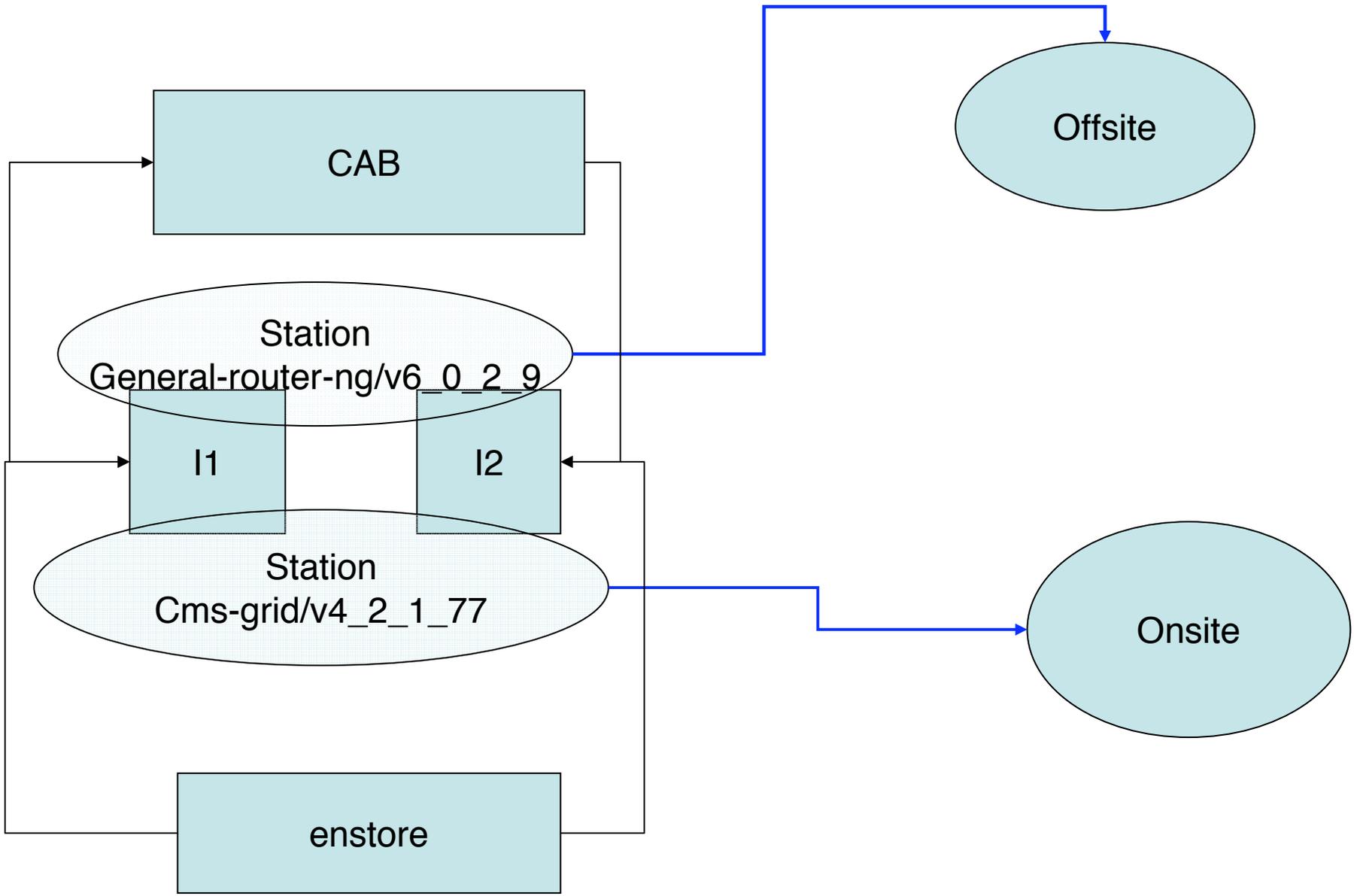
Current. D0rsam01 deployment



Issues

- Load 10.
- No buffer space for tape less data pass
- Single point of failure.
- Used for offsite access : MC , remote analysis , etc.
- Peak network bandwidth under the load is ~30 Mb/s
 - Little slack to catch up for inefficiencies down the road.

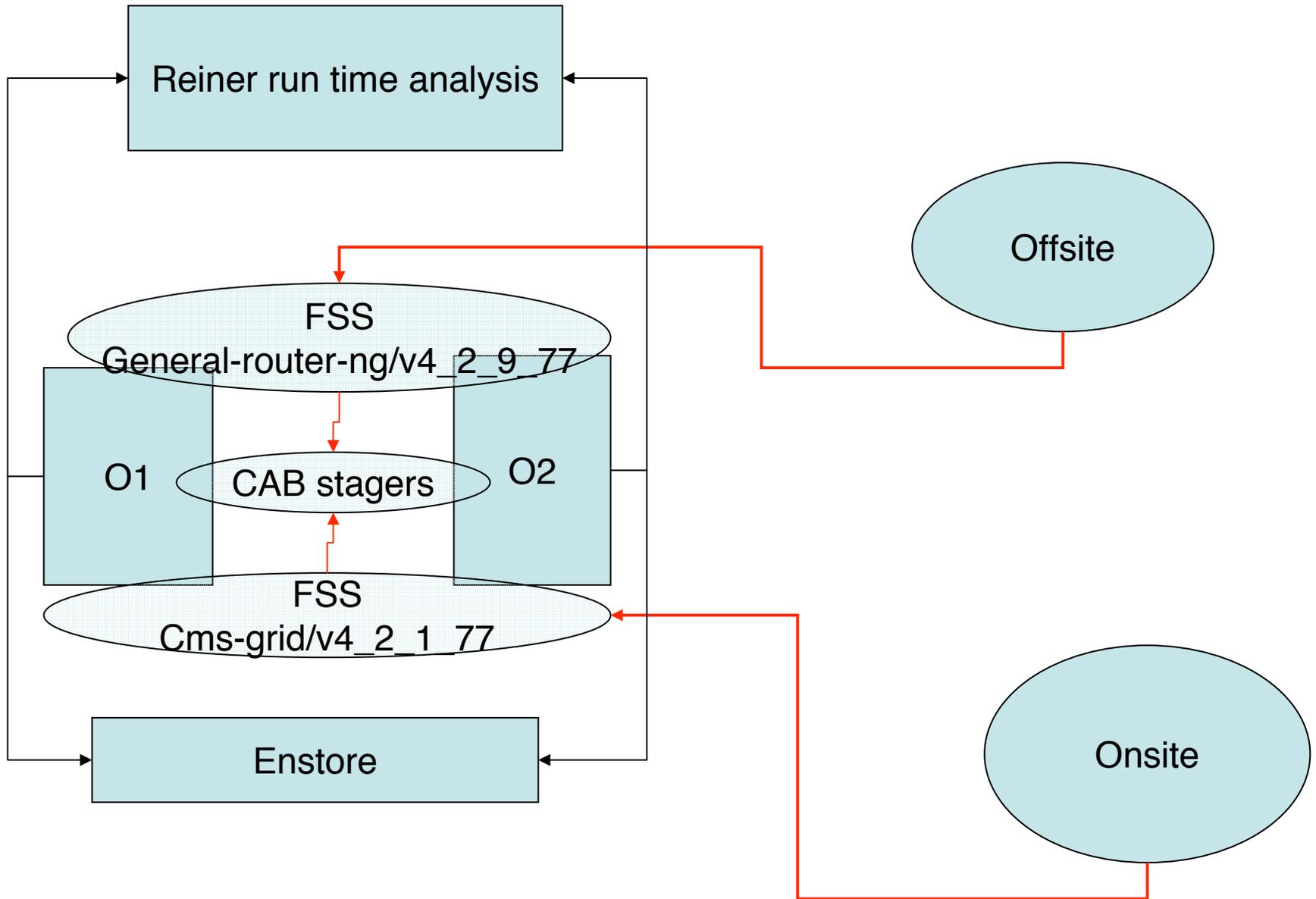
Suggested. Refixing Input deployment.



Purpose

- 2 Nodes to increase tolerance to hardware failures.
- Better utilize disk resources.
- Nodes will be managed both by v4 cms-grid station and general-router-ng v6.
- Cms-grid maintains 450Gb (450CPUs) of space.
- General-router-ng
 - replicates general-router. Manage refixing specific policicies (enstore priority, no crc checks for ex)

Suggested. Refixing HW/SAMOutput deployment.



Purpose.

- 2 Nodes increase HW failure tolerance
 - Disjoint from refixing input.
- Large buffer space to enable tape less data pass.
- Provide buffer space to ride enstore downtimes.
- Run cab stagers to manage tape less data pass.

Continued...

- Run cms-grid FSS for enstore stores AND trigger file import to CAB via CAB stager.
- Run general-router-ng FSS for enstore stores AND trigger file import to CAB via stager.
 - General-router-ng will be responsible for refixing DH policies. (enstore pri, no crc checks)

New development

- Interface samcp storage class to trigger file import to CAB station before / while storing file to the enstore.
 - Purpose. Fork data both to tape and revolving cache managed by CAB stagers on O1 and O2.