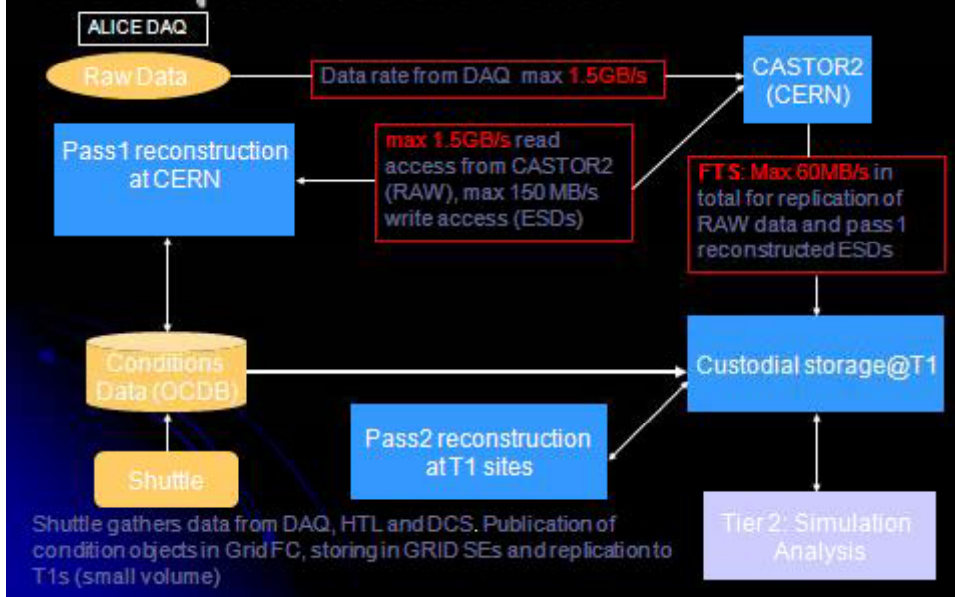


# Data paths and rates



# ATLAS Scaling Factors

- T0 rate: 200Hz
- T0->T1 Traffic: 1020 MB/s
- T1->T2 Traffic: 10-40 MB/s depending on T2
  - 5-20 from real data and 5-20 from reprocessing
- T1->T1 Traffic: 40 MB/s
  - 20 from ESD + ~20 from AOD.
  - This assumes everybody will reprocess in Feb. CCRC08
- Job Submission at T1: 6000 Jobs/Day (over all T1s)
- MC Simulation: 20% of RAW data = 30Hz = 2.5M Events/Day = 100K simulation jobs/day + 10K reco jobs/day at T1

## Basic Scaling Items to Check in CSA08

Service	CSA08 Goal	CSA07 Goal	CSA06 Goal	Status 2006
Tier-0 Reco Rate (Hz)	150 - 300	100Hz	50Hz	Achieved
Network Transfers between T0-T1	600MB/s	300MB/s	150MB/s	Achieved All (6/7 continuous)
Network Transfers between T1-T2	50-500 MB/s	20-200 MB/s	10-100 MB/s	Achieved (15 sites)
Network Transfers T1-T1	100MB/s	50MB/s	NA	NA
Job Submission to Tier-1s	50k jobs/d	25k jobs/d	12k jobs/d	3k jobs/d
Job Submissions to Tier-2s	150k jobs/d	75k jobs/d	48k jobs/d	Achieved
MC Simulation	1.5 10 <sup>9</sup> /year = 100M /month	50M per month	NA	Not Attempted

## "Scaling" table

Service	Goal
CERN+T1 recons rate	(see job submission)
T0-T1 rate	35+6x1 MB/s
T1-T0 rate	6 MB/s
T1-T1 rate	9 MB/s per typical T1
Job submission to CERN	0.3k jobs/day
Job submission to Tier-1s	1.7k jobs/day
Analysis job to CERN/T1 (May only)	0.1-0.5k jobs/day

All production jobs ~24 hours in duration  
 These rates are same for May but sustained for longer duration