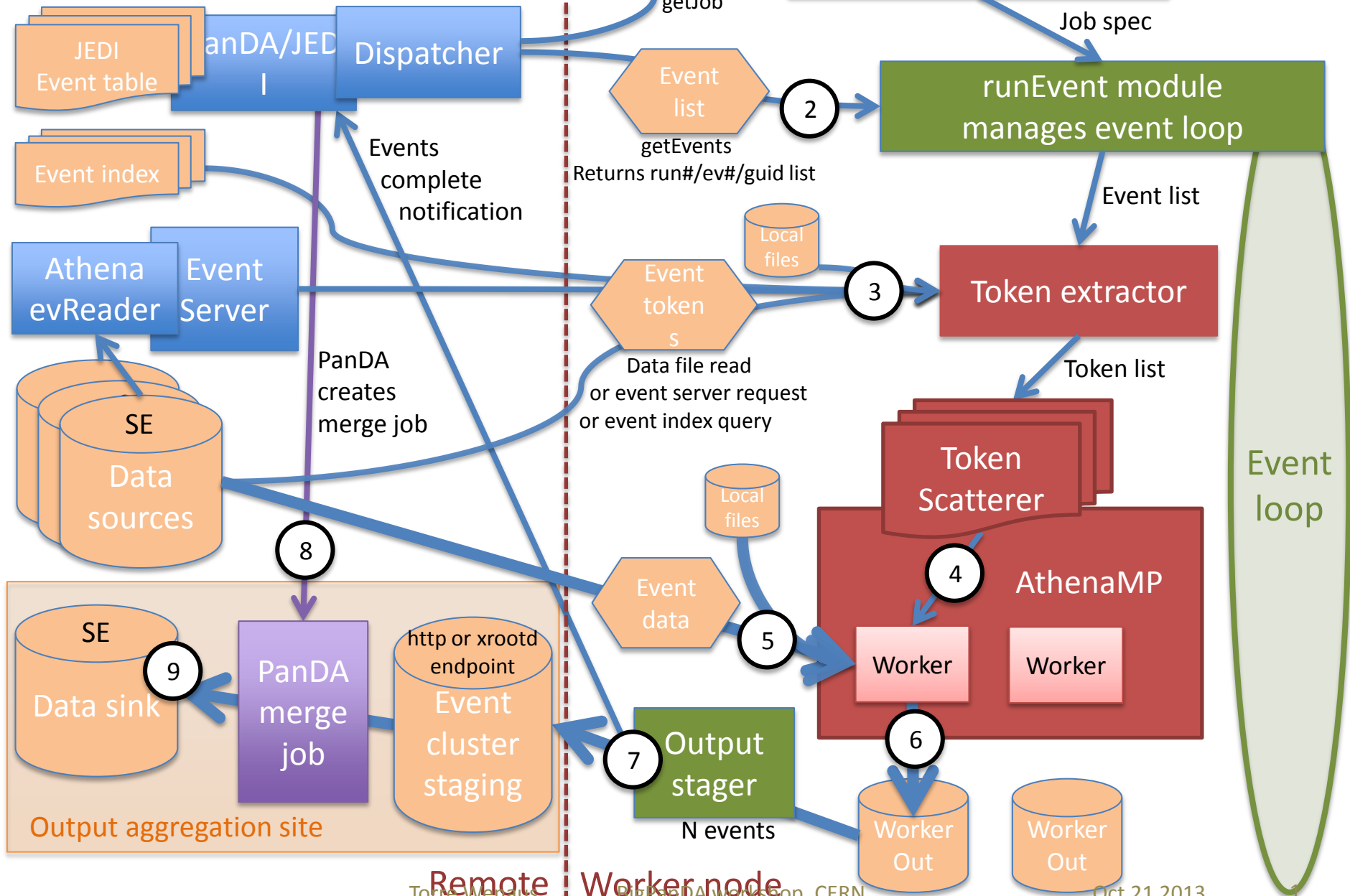


Event Service schematic V4

Oct 2013

Pilot



ATLAS Event Service Workflow

Pilot requests a job from PanDA

PanDA sends the pilot an event mode job

Pilot enters event service mode and requests event list

PanDA selects and dispatches event(s), updating its event bookkeeping

Event
loop

Pilot forwards event list to AthenaMP, GUID resolved to PFN in PFC

AthenaMP payload receives event list, translates to event header tokens (specifying how to read event), distributes tokens to workers

Workers read event data, process, and write 1- or few-event files

Pilot monitors outputs, uploads new files to aggregation site, informs PanDA

PanDA detects when a job's events are done and uploaded, and initiates a merge