GRACC
New Generation of the OSG Accounting

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Kevin Retzke — kretzke@fnal.gov, Tanya Levshina — tlevshin@fnal.gov, Bo Jayatilaka — boj@fnal.gov, Chander Sehgal — sehgal@fnal.gov, Shreyas Bhat — sbhat@fnal.gov • Computing Sector, Fermilab, Batavia, IL
Brian Bockelman — bbockelman@cse.unl.edu, Derek Weitzel — dweitzel@cse.unl.edu • University of Nebraska — Lincoln
Robert Quick — rquick@iu.edu • Indiana University Frank Wuerthwein— fkw@ucsd.edu • University of California — San Diego
Outline

- The motivations for replacing Gratia, the current OSG Accounting System
- Architecture of a new next-generation accounting service, GRACC:
  - based on open-source technology
  - compatible with Gratia
- Requirements include:
  - preservation of old data
  - addition of new metrics
  - aggregation at various levels
- GRACC consists of swappable, independent components:
  - Elasticsearch
  - Logstash
  - Kibana
  - Grafana
  - RabbitMQ
  - Custom probes
Outline

- Distributed deployment:
  - ES cluster at Nebraska
  - RabbitMQ at Indiana
  - GRACC Collector at Fermilab
  - Probes are running on all OSG sites
- ES Statistics:
  - 1.1 billion documents in ElasticSearch
  - 1 million new job records per day
- Examples of Grafana Dashboards:
  - Bargraph: Payload wall duration per Field of Science
  - PieChart: Payload wall duration per VO
- Planned Development
  - Integration with WLCG and XSEDE Accounting
  - Full integration with the OSG Information Management Service
  - Production: Spring of 2017.