

# Comparison: CEMon v/s OSG Info Services

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# Evaluation Criteria

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  - Performance
    - Need to advertise to ReSS every 600 sec
    - Need to advertise to BDII every 300 sec
  - Security
  - Expertise
  - Maintenance
  - Support

# Test Setup

- ReSS HA setup similar to Production and ITB
  - Input to the CEMon is raw LDIF
  - Same input is provided to the OSG Info Services Tool via `--uri="file://"` argument
- During evaluation, production ReSS had
  - 21,878 classads
  - 90 gatekeepers advertising
  - 243 average classads per Gatekeeper (avg/CE)

# Evaluation

	OSG Information Services	CEMon
<b>Performance:</b> Site: fermigridosg1.fnal.gov Speed (Formatting* + Transmitting)	489 classads 639** sec (380 sec + 359 sec)	549 classads < 28* sec (< 25 sec + 1 to 3 sec)
<b>Performance:</b> Site: fngposg1.fnal.gov Speed (Formatting* + Transmitting)	Failed advertising the info to ReSS ??? (860 sec + ??? sec)	1930 classads < 164* sec (< 100 sec + 64 sec)
<b>Support for secure registration</b>	Yes	Yes
<b>Source Code Size we maintain</b>	900 lines	1150 lines (osg-ce-plugin)
<b>Dependencies</b>	OSG GIP	OSG GIP, Tomcat, Apache
<b>Pros</b>	1. Lightweight and fewer dependencies 2. Knowledge would be local	1. Stable and in production for 2+ yrs 2. Undergone security review
<b>Cons</b>	1. Yet to be deployed/tested in production	1. Heavyweight, we use subset of functionality, more dependencies, 2. Have local experts but still dependent on CEMon team at times
<b>Support</b>	GIP group	CEMon developers have been very responsive to the support requests.

\* Actual info formatting time for CEMon is much lower than that mentioned

\*\* It's not clear how the tool will behave if the second advertising cycle starts before first one completes

# Summary

- CEMon
  - Working and stable
  - We have RSV probes to help admins
  - Configuration and Operations well documented
  - No GOC tickets since Jan 10, 2010. Overall ticket traffic is extremely low
  - Considerable time and effort spent to reach the stable operations
  - Successful collaboration with the European groups
  - Heavyweight and has more dependencies.
- OSG Info Services
  - Was not able to successfully run some of the test cases.
  - Performance is a major concern
  - Need to go through several level of iterations to achieve stable operations
  - New tool for site admins to learn
  - Lightweight and fewer dependencies
  - Smaller sites don't have to install Apache and Tomcat