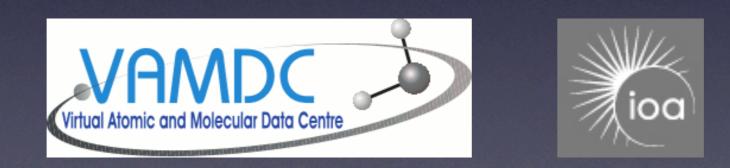
QA ideas for VAMDC services

VAMDC PMI April 2010



What to test?

- Data services?
- Code-execution services?
- Data sets directly?

Test at the level of the web services



Testing data services

"Does the service work?" = "Is the service up" and "Does the service respond to queries?" and "Is the response fast enough" and "Are the results syntactically correct?" and "Are the results scientifically correct?"

> Yellow \Rightarrow same for all services of a class Green \Rightarrow different tests for each service



Smoke test vs. covering test

- "Smoke test":
 - Few queries (only one per service instance?)
 - Run frequently
 - Find "obvious" problems"
- Covering test:

 - Run occasionally
 - Find subtle problems
 - Best place to check scientific validity?



Testing code execution

- Just like testing data service
- Code-execution service = data service with different query language



Oracles

- Need sample queries for smoke test: who will supply?
- Science tests:
 - automated checking of metrics?
 - manual inspection?

