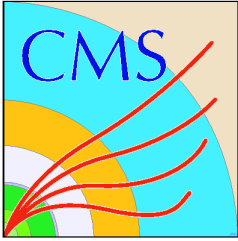


CMS Online Conditions Evolution

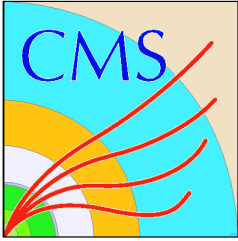
WLCG Database Technical Evolution Group Workshop
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Current situation

- CMS Online conditions are loaded with Frontier
- A squid on every node
- Squids statically configured in a hierarchy
 - The rpm supplied by me knows about the machine names and the network topology
 - Each squid chooses a parent and 2-3 backups, staying within racks where possible and always within slices
 - Almost always no more than 4 children per node
 - Any time hardware is added or upgraded, the rpm has to be changed



Improvement plan

- Decouple the hierarchy selection algorithm from the rpm
- Move it to a script maintained by the system administrators
 - They plan to load the hierarchy into a special DNS subdomain
 - They can change the hierarchy by just changing the DNS entries
- This also makes the squid rpm more portable if ATLAS wants to try it