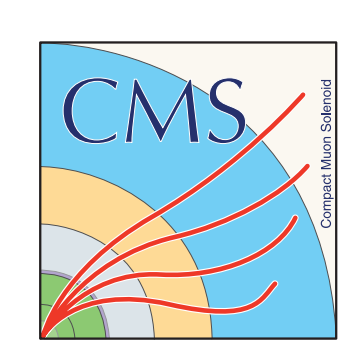


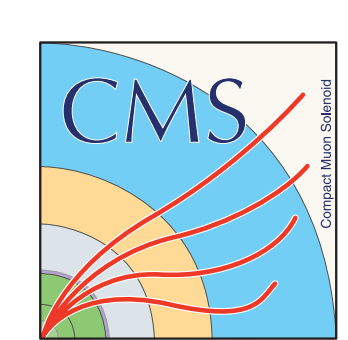
XrootD Support and CMS

Elizabeth Sexton-Kennedy



Goals of this Talk

- CMS has a desire to discuss the long term support of xrootd
- CMS requires remote streaming to support its current computing model
- The model has evolved over the years due to
 1. evolution of the reliability and capabilities of networking
 2. our disk resources are reliably under pledged



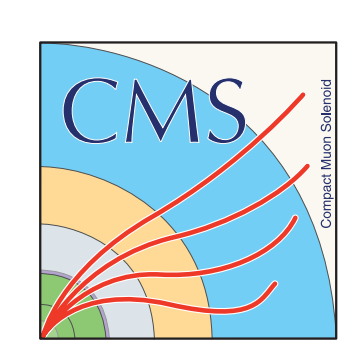
Key Computing Model Elements and XrootD

CMS uses XrootD in Key parts of our computing model:

- needed for Prompt Reconstruction at Tier1s
- needed for Pileup library
- needed for analysis streaming

Without it we would not be able to:

- promptly reconstruct the full data rate of raw detector data from P5
- produce high pileup simulation samples on the GRID
- effectively use our global computing resources for distributed analysis

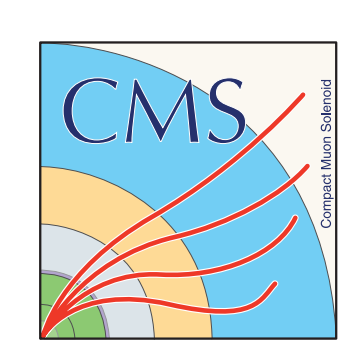


Stakeholders of Components - CMS

Stakeholders

Components	CMS
Core	X
Client	X
Monitoring	X
Clustering	X
Object Query	
FS - POSIX backend	X
FS - XCache	X
FS - multi user POSIX	X
FS - S3/HTTP/Globus	
FS - EOS	
Auth - SciTokens	X
Auth - X509	X
Protocol - Xrootd	X
Protocol - HTTP	X
Int. Testing	X

CMS using a large fractions of the components of XrootD and should contribute more to its development

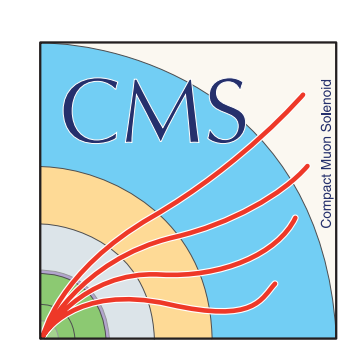


Stakeholders of Components

Stakeholders

Components	SLAC(LSST)	ATLAS	EOS	OSDF	CMS
Core	?	X	X	X	X
Client	?	X	X		X
Monitoring	?	?		X	X
Clustering	?				X
Object Query	X				
FS - POSIX backend	?	?		X	
FS - XCache	?	?		X	X
FS - multi user POSIX				X	X
FS - S3/HTTP/Globus				X	
FS - EOS		Ind <input type="button" value="v"/>	X		Ind
Auth - SciTokens		X	X	X	X
Auth - X509	?	X	X		X
Protocol - Xrootd	?	X	X		X
Protocol - HTTP	?	X	X	X	X
Int. Testing	?	X	X	X	X

Who we think other potential stakeholders are and what components they use.



Contributors to Components

Contributors

Components	Rubin	USATLAS	CERN	Pelican	USCMS	IRIS-HEP
Core	X	X				
Client			X			
Monitoring	?	X			X	
Clustering	?	X				
Object Query	X					
FS - POSIX	?	X				
FS - XCache					X	
FS - multi user POSIX				X		X
FS - S3/HTTP/Globus				X		
FS - EOS			X			
Auth - SciTokens				X		
Auth - X509			(SFT)			
Protocol - Xrootd	?	X				
Protocol - HTTP			X			
Int. Testing				X		X

Who we think are contributing to what, so that we can find partners.

CMS would like to contribute more given it's importance to us!