



Contribution ID: 25

Type: **10 Minutes**

Encryption and Obfuscation Support in EOS

Tuesday 8 March 2022 11:10 (15 minutes)

With XRootD5 the on the wire protocol provides confidentiality of data inside the transport layer. However data files are human readable on storage nodes and can be accessed and downloaded by any EOS administrator and any person with read access. Filesystem level encryption on storage nodes does not solve this confidentiality problem.

To provide better data privacy the most recent versions of EOS support client and server side high-performance obfuscation and (with certain limitations) data encryption. The presentation will explain opportunities, challenges and limitations of the implementation.

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Session Classification: EOS 3

Track Classification: EOS Core Development