





# EOS HTTP TPC status

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on behalf of the **EOS team**

# A bit of context ...

- **EOS** uses plugins from vanilla XRootD to provide HTTP and HTTP TPC support
  - **XrdHttp** – base HTTP
  - **XrdTpc** – HTTP TPC
  - **XrdMacaroons** – Macaroons support
  - **XrdSciTokens** – SciTokens/WLCG JWT support
- Production release **EOS 4.8.25** based on **XRootD 4.12.5**
- Expect move to **XRootD5** in Q1 2021

# EOS instances status

- **EOSATLAS**

- 4.8.25 based on XRootD 4.12.5
- Ongoing tests and issues discovered by Petr V.

- **EOSLHCb**

- 4.8.25 based on XRootD 4.12.5
- Tests are ongoing with experiment representatives

- **EOSCMS**

- 4.8.25 based on XRootD 4.12.5
- Not aware of anyone using this (HTTP/TPC) functionality for the moment

# Past/present items (1)

- **XrdHttp** handle proxy, multi-proxy certificates in the presence of gridmap-file
  - Discovered in EOSATLAS which heavily uses this functionality
  - Fixed 4.12.4 (3<sup>rd</sup> of September)
- **XrdHttp** looping requests when handling large/incomplete headers
  - Discovered in EOSATLAS in production since it was affecting the performance of the instance
  - Triggered by a Storm endpoint
  - Finally fixed in 4.12.5 (16<sup>th</sup> of October)

# Past/present items (2)

- **XrdTpc** does not encode redirection URLs
  - Discovered in EOSATLAS by Petr V.
  - Fixed in 4.12.5
- **XrdTpc** Pull race condition when querying for checksum
  - Issue discovered by Petr V.
  - Fixed in the master branch
  - Will there be a backport to 4.12.\* branch?
- **XrdSciTokens** needs to be updated to support group-based authorization
  - Item on the EOS team – to be addressed soon

# Future items

- Integrate and test WLCG group-based authorization in EOS
- Test and adapt the current stack of plugins wrt. to **XRootD5**



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