



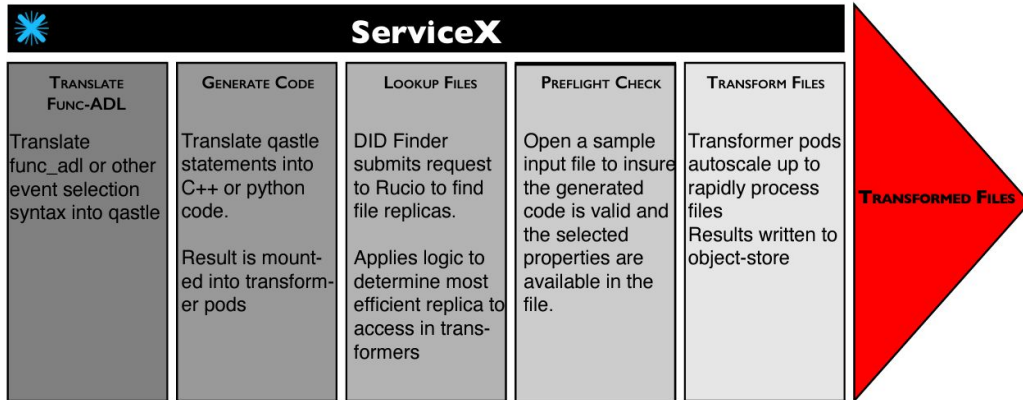
# Enabling support for MiniAOD Transformer for ServiceX

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# Background

- **ServiceX**: Extracts columnar data from HEP event data and delivers it.
  - Data location, extraction, filtering, and transformation system
- **func\_adl**: data query language
  - Tells how to extract data for ServiceX
  - Backends: C++(ATLAS & CMS);
  - Limitation: Only runs on xAOD(ATLAS) and CMS AOD(CMS)





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  - Limitation: Only runs on xAOD(ATLAS) and AOD(CMS)
- **Mini\_AOD:** Compressed data format
  - Developed due to more data & limited data storage resources
  - 10% of the size of AOD



# Project Goal

- Create an interface similar to the existing `func_adl` xAOD repository
  - The user can send hierarchical SQL-like queries to a MiniAOD backend
- Modifications of the C++ ServiceX backend
  - Allow processing the publicly available CMS MiniAOD binary files.
- Similar modifications for NanoAOD?



Thank you!