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## FELIX: the new detector readout system for the ATLAS experiment

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After the Phase-I upgrade and onward, the Front-End Link eXchange (FELIX) system will be the interface between the data handling system and the detector front-end electronics and trigger electronics at the ATLAS experiment. FELIX will function as a router between custom serial links and a commodity switch network which will use standard technologies (Ethernet or Infiniband) to communicate with data collecting and processing components. The system architecture of FELIX will be described and the results of the demonstrator program currently in progress will be presented.

## **Tertiary Keyword (Optional)**

Data processing workflows and frameworks/pipelines

## **Secondary Keyword (Optional)**

Network systems and solutions

## **Primary Keyword (Mandatory)**

DAQ

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