DAQ for the AIDA telescope

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EUDAQ, general architecture

Control application

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Log Collector

Control

Data Collector

Data

Ethernet TCP/IP

Data/Control

Telescope Producer

Data/Control

TLU Producer

Data/Control

DUT Producer

Data/Control

Online monitoring

AIDA

DESY
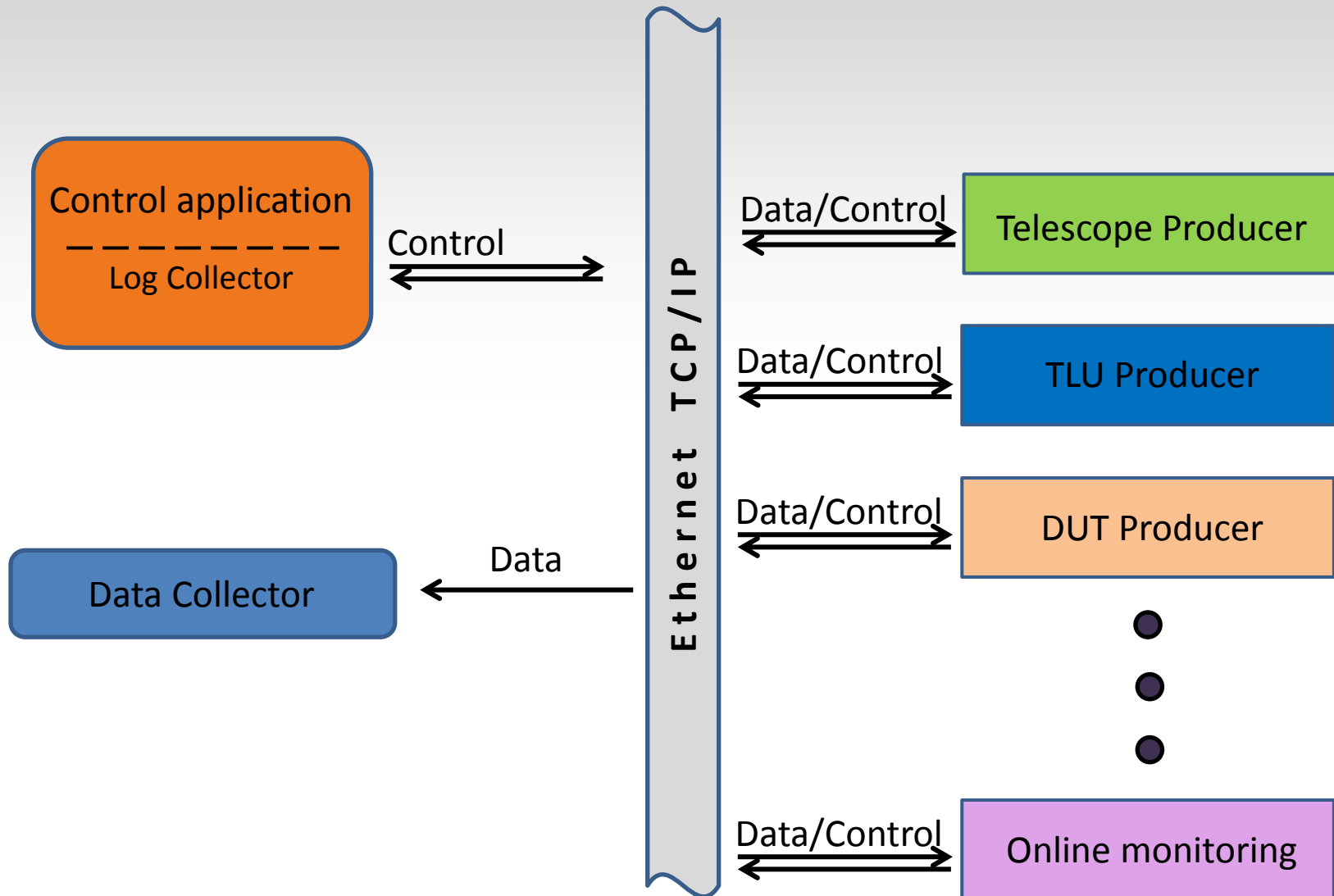
EUDAQ, AIDA-telescope requirements

- With low size events it's not possible to use full Ethernet bandwidth – need to send a couple events per one bunch
- A trigger time stamp is needed for data reconstruction with high resolution for each trigger
- EUDAQ needs to be modified to receive different numbers of events from each producer
- Data should be written in separate file (each producer has own data file)
- Time-stamp read-out from TLU should be done as quickly as possible

AIDA DESY

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