

Status report

21.05.2026

Ferran Ortiz Terol

Current state of work: TDAQ software

- Learned how to use Run control
- Learning how to use OKS editor
 - In a future, start working with “Tile PPr Configurator” code
- ❖ Problem: Some error with the e-link connection in our partition. Still no capable of performing full runs

Current state of work: FELIX

- Learning how to work, configure and fix problems related to FELIX:
 - E-links editor
 - Data generator
 - Migration to new version
- Attending “Readout User Meetings” Where current FELIX and SWROD/Data Handler developments are discussed
- Current **swrod** package within the TDAQ release will be gradually replaced by the new **data_handler** package

“Understand what information the Data Handler will have to use to aggregate data from multiple E-Links into larger fragments”

- Which data field(s) in the data packets must be used by the Data Handler to aggregate packets from multiple E-Links into the same fragment?
- If multiple data fields need to be considered, please specify how they should be used. A non-exhaustive list of possible usage modes includes:
 - All data fields must always be verified across all E-Links (e.g. LoID and BCID).
 - A primary data field must be used first, if it can be successfully matched to the LoA packet. Secondary fields may be used only if primary-field matching fails. For example, the LoID bits may be compared with the LoID value provided by the LoA packet generated by FELIX, while the BCID value is used only if LoID matching fails.

“Understand what information the Data Handler will have to use to aggregate data from multiple E-Links into larger fragments”

- What is the size (in bits) of the corresponding data fields used for data aggregation?
- Are these sizes fixed, or can they vary between data packets?
- Are the positions of these data fields within the data packets fixed, or can they vary between packets?
- Do data packets include a CRC value that can be used to verify data integrity?
- Please provide any suggestions or requirements about how to handle data errors in the situations when the matching between the data packets and the LoA fail.