## Slice test report – L1Topo

Goal (again): operate L1Topo real-time inputs with all FEXes and spy on the data

Executive summary (again): L1Topo operated with input data from FEXes. Mostly success:

- Individual tests to confirm operation as of previous tests, and uncover remaining issues.
- Formatted data tests
- Error counters checked
- Data recorded in spy memories for all FEXes
- Initial synch/alignment issues with both eFEX and gFEX
- Eventually properly aligned data received.
- CRC not matching at receiving end
- Spy memory captured data provided to respective FEXes
- BCIDs seem to jump at gFEX received data
- Further analysis/interpretation been done?

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## Preparations / plans

## Before slice test week have a go at:

- 1. Integrate play/spy circuitry with TTC data to synchronize spy data to BCreset
- 2. Arrive at a near final mapping for interface between MGT infrastructure and algorithms (Christian, Johannes, Ralf)
- 3. Extend spy scheme to capture additional data (e.g. algorithm-internal data and L1A)
- 4. Integrate with readout circuitry (Marek)

Synched data transmission for full slice comes in two required steps:

- 1) With spy memory readout
- 4) With readout to ROD

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