### ITk Controller

- Uplinks from Detector
- Uplink Interface
- Decode Packets
- Sort for Type
- Collect Physics
- Monitor Data
- Merge Event Fragments From These Links
- Buffer Data for L1
- Analyze Physics Monitor Data
- Calibration Algorithms and Analysis
- Event ID Tracking and Register Readback
- Error Detected
- Option to dump raw data
- DCs Data & Warnings
- Static Steer/ Duplicate
- Not needed for standalone operation

### TDAQ/TTC

- Busy
- TTC includes L0A (+ optional L1A, ROIs)

### Local Trigger Interface

- RoI Translate R3/L0P/L0AA Generate

### Downlink Interface

- Downlinks to Detector

### Operator Console

- ITk Controller
- Monitor Data
- Higher Level Calibration Algorithms and Analysis
- Calibration Mode Data
- Raw Link Data
- Physics Data
- Raw Link Data
- Option to dump raw data
- Controller Network
- High BW
- DCS Data & Warnings
- DCS

### Uplink Interface

- Decode Packets
- Sort for Type
- Uplinks from Detector

### TDAQ

- L1Track
- Higher Level

### DCS

- Controller Network
- High BW
- Not needed for standalone operation