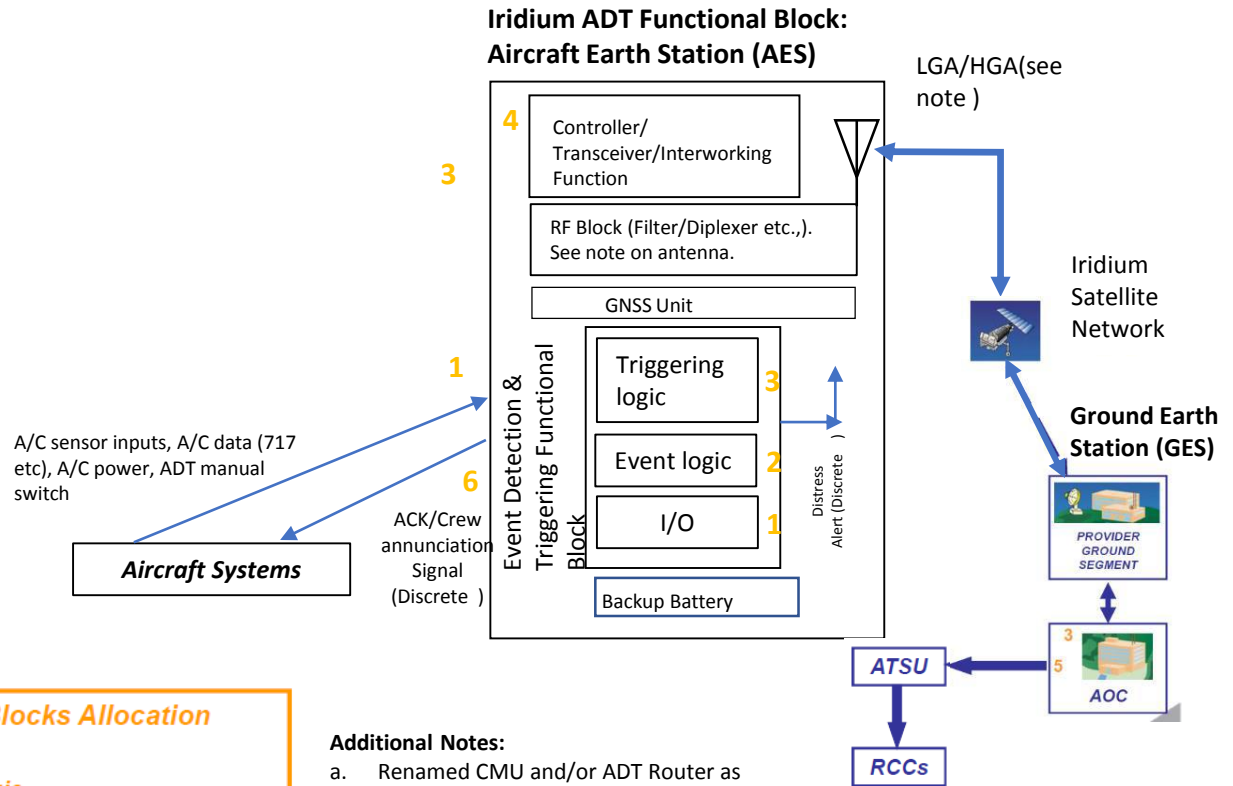


# ADT-Satcom Iridium Architecture, Ver 4.0 Option 2



## ADT Functional Blocks Allocation

- 1 – Aircraft State Function
- 2 – Distress Detection Logic
- 3 – Triggering criteria logic
- 4 – Distress Tracking Transmission
- 5 – Distress Report
- 6 – Flight crew Feedback

**Additional Notes:**

- a. Renamed CMU and/or ADT Router as Controller or Interworking Function.
- b. Data Bus (one-way) to Iridium ADT enables external GNSS source and additional Abnormal and Flight Data Streaming function
- c. 2-way coms between AOC and ADT to support ground-based Distress.
- d. **Note 1:** LGA/HGA Antenna: (1) With Block 1, LGA. (2) With certus, LGA (RF block builtin to iridium transceiver function) or (3) With Certus, HGA (RF block builtin to antenna)

**Note 2:** It is recommended the link, A/C systems → ADT is unidirectional diode to prevent potential security breach from Ground systems and/or AISD domain. The only exception shown is ADT status going to flight deck (A/C systems domain). This exception will have to be reviewed as a team on how the potential security risk from AISD domain will be addressed.

**Note 3:** Ground based trigger can be used in the case of non-cooperative crew (malicious or incapacitated). This is coupled with the capability to cancel the trigger.