



AGENDA

- Scenario Description
- Safety Kernel Components
 Architecture
- Test Environment
- Demonstrations



SCENARIO DESCRIPTION

 Demonstrate KARYON functionalities in an aeronautical application and how it may improve the usage of local airspace without compromising flight safety.



SCENARIO DESCRIPTION



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SAFETY KERNEL COMPONENTS ARCHITECTURE



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TEST ENVIRONMENT





DEMONSTRATIONS

[/]1. No failure insertion. Level of Service = 2;

2. GPS PDOP = 5. Level of Service = 1.

Validity Signal	Description
1-2	Good reliability and better precision. All safety requirements are met.
2-5	Uncertainties start to have some impact on navigation. Additional measures must be taken so that flight safety is not compromised.
5-10	Poor information quality and potential threat to safety. Signals must be used carefully.
10-20	Displacement information only an estimation. Worst quality signal.

Physical interpretation of GPS validity signals

 The level of serviced calculated by the Safety Kernel becomes worse the higher the validity value.