A technical path to dependable systems

White-paper starter

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Owner: Systems working group
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Executive summary

This paper proposes a measurable, reviewable route from a technical problem to a dependable implementation. Replace this paragraph with the decision, the evidence supporting it, and the result requested from the reader.

1 Problem and opportunity

Describe the user need, the operating environment, and the constraints that make the problem worth solving. Keep claims testable and distinguish current capabilities from planned work.

2 Design principles

1. Prefer small interfaces that can be tested independently.
2. Make failure modes visible to operators and reviewers.
3. Record assumptions so future measurements can challenge them.

3 Work packages

Package	Outcome	Owner	Target
Baseline	Reproducible reference measurement	Team A	Month 1
Prototype	End-to-end demonstrator	Team B	Month 2
Evaluation	Independent results and limits	Team C	Month 3

4 Measures and risks

Define success before implementation begins. Useful measures include latency, failure recovery, adoption, and cost of operation. Record each material risk, its likelihood, impact, mitigation, and trigger for escalation.

5 Decision requested

State the decision in one sentence, name the accountable approver, and list the next three actions after approval. This section should stand alone when the paper is circulated to a steering group.