



# Framework Configuration Reference

This section documents configuration parameters for all CIF defense components. For algorithm pseudocode, see sec:methodology. Sensitivity analysis quantifying parameter impact is provided in sec:sensitivity.

**Reproducibility:** Default values were determined via `scripts/run_sensitivity_analysis.py` → `output/data/sensitivity_results.json`. Optimal ranges are validated across all six architecture types.

## Core Framework Parameters

Table 1: Core framework configuration parameters.

Parameter	Symbol	Default	Range	Description
Trust decay factor	$\delta$	0.8	(0, 1)	Per-hop trust
Acceptance threshold	$\tau_{accept}$	0.7	(0, 1)	Minimum belief
Trusted source threshold	$\tau_{trusted}$	0.9	(0, 1)	Direct promotion
Corroboration count	$\kappa$	2	[1, $n - 1$ ]	Required confidence
Consistency threshold	$\tau$	0.8	(0, 1)	Contradiction