

Supplementary: Notation Reference

This supplement provides a comprehensive reference for the mathematical notation used throughout the Cognitive Integrity Framework (CIF) manuscript, including the eusocial and colony cognitive security extensions. Symbols are organized by domain, with cross-references to their formal definitions in the main text and supplements.

Adversary Model Notation

Symbol	Meaning	Defined In
Ω_k	Adversary class k (e.g., $\Omega_1 = \text{External}$, $\Omega_5 = \text{Systemic}$)	def:adversary-class
\mathcal{R}	Attack resource tuple $\langle R_C, R_K, R_A, R_P, R_{Co} \rangle$	def:resources
R_C	Computational resources (FLQPS, \dots)	tab:resource-types