

Reasoner Capability Matrix: Pass/Fail by Category (Based on latency requirements and expressivity)

	Safety (<10ms)	Operational (<100ms)	Planning (<1000ms)
Vampire	FAIL 48ms (req: 10ms)	PASS 48ms (req: 100ms)	PASS 48ms (req: 1000ms)
ELK	N/A Cannot Express	PASS ~3ms	PASS ~5ms
Prolog	PASS <1ms	PASS <1ms	PASS <2ms
Reasonable	N/A Cannot Express	PASS ~5ms	PASS ~10ms

Legend:

- PASS (meets requirement)
- FAIL (exceeds requirement)
- N/A (cannot express)