QKD INTRUSION DETECTION SYSTEM

AUTOMATED SESSION AUDIT REPORT // CLASSIFIED

REPORT GENERATED:	2026-02-24 15:41:36 IST
OPERATOR ID:	Rahul Rajesh (2360445)
SESSION EVENTS LOGGED:	429
THREATS DETECTED:	429

1. LAST DETECTED THREAT DETAILS

Signature Engine (RF):	ATTACK_TIMESHIFT	Confidence: 85.95%
Anomaly Engine (SVM):	**ANOMALY DETECTED (Zero-Day)**	Confidence: N/A

Detector Bias Voltage:	3.31 V
Avalanche Timing Jitter:	0.050 ns
Quantum Bit Error Rate (QBER):	2.64%

2. FORENSIC NARRATIVE (LATEST INCIDENT)
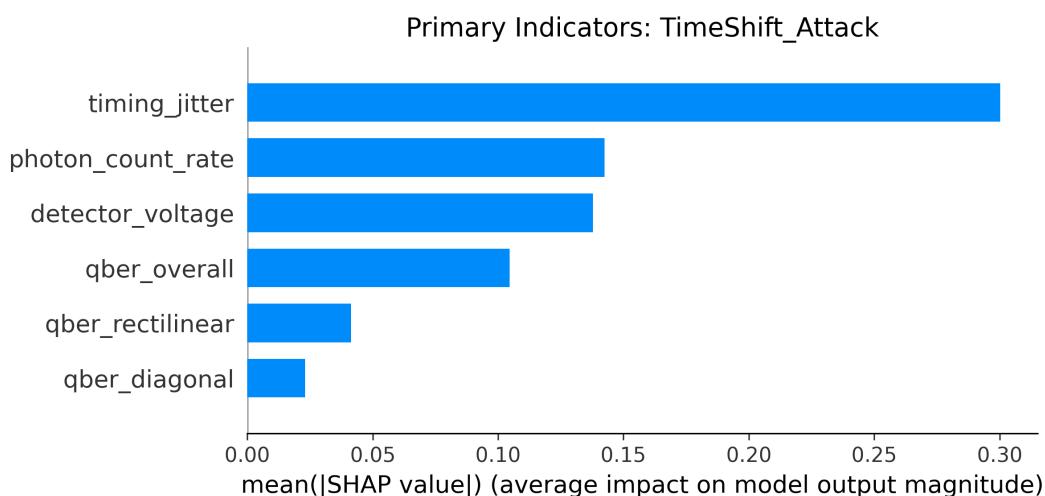
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FORENSIC ANALYSIS: [ATTACK_TIMESHIFT]
SOPHISTICATED THREAT: TIMING ANOMALY
Reasoning: The AI detected an efficiency mismatch indicating timing offsets.
- Evidence A: Unnatural Precision (0.05 ns). Real thermal jitter should be >1.0 ns.
-> Conclusion: Eve is shifting pulses to exploit the detector's temporal efficiency curve.
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3. EXPLAINABLE AI EVIDENCE

Primary Indicators: TimeShift_Attack

mean(|SHAP value|) (average impact on model output magnitude)

4. TELEMETRY LOGS (LAST 20 EVENTS)

Timestamp	Verdict	Signature	Conf.	QBER
2026-02-24 15:41:33	attack_timeshift	attack_timeshift	84.79%	2.53%
2026-02-24 15:41:33	attack_timeshift	attack_timeshift	84.79%	3.21%
2026-02-24 15:41:33	attack_timeshift	attack_timeshift	83.39%	2.90%
2026-02-24 15:41:33	attack_timeshift	attack_timeshift	84.90%	3.61%
2026-02-24 15:41:33	attack_timeshift	attack_timeshift	84.90%	3.31%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	84.90%	3.27%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	84.90%	3.37%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	84.90%	3.35%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	84.90%	3.35%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	84.90%	3.10%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	85.95%	3.24%
2026-02-24 15:41:34	attack_timeshift	attack_timeshift	86.13%	2.83%
2026-02-24 15:41:35	attack_timeshift	attack_timeshift	85.95%	3.04%
2026-02-24 15:41:35	attack_timeshift	attack_timeshift	86.13%	2.66%
2026-02-24 15:41:35	attack_timeshift	attack_timeshift	85.13%	2.59%
2026-02-24 15:41:35	attack_timeshift	attack_timeshift	85.13%	2.56%
2026-02-24 15:41:35	attack_timeshift	attack_timeshift	85.13%	2.58%
2026-02-24 15:41:36	attack_timeshift	attack_timeshift	86.13%	2.27%
2026-02-24 15:41:36	attack_timeshift	attack_timeshift	85.95%	2.64%
2026-02-24 15:41:36	attack_timeshift	attack_timeshift	85.65%	2.73%