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NCAT (NexGen Compliance Automation Tool)

CMMC & NIST SP 800-171 Automation Pilot Proposal

1. Executive Summary

The NCAT (NexGen Compliance Automation Tool) Pilot is a focused, low-risk, 4–6-week engagement designed to demonstrate how AI-driven automation can significantly reduce the time, cost, and manual effort associated with assessing, monitoring, and documenting compliance with NIST SP 800-171 and CMMC requirements.

This pilot will validate NCAT's ability to securely connect to approved systems, automate evidence collection, continuously monitor control activity, and generate audit-ready compliance documentation. The pilot will focus on 1–5 selected controls, with Access Control recommended as the initial use case.

2. Pilot Objectives

The objectives of this pilot are to demonstrate that NCAT can:

- Securely connect to approved, low-risk data sources using read-only access
 - Automatically collect and map compliance evidence to CMMC and NIST SP 800-171 controls
 - Apply AI-driven analysis to assess compliance status
 - Continuously monitor control activity on a 24/7 basis
 - Identify missing, outdated, or incomplete evidence
 - Generate audit-ready documentation and artifacts
 - Trigger alerts and notifications when corrective action is required
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3. Pilot Scope

3.1 Controls Included

The pilot will include **1–5 controls**, based on customer preference and risk tolerance.

Recommended Starting Control

- **Access Control (Primary Focus)**

Optional Additional Controls

- Account Management
- Multi-Factor Authentication (MFA)
- Audit Logging
- Security Assessments

To minimize risk and complexity, the pilot may be scoped to a single control if desired.

4. Day One Requirements (Low-Risk Data Access)

To initiate the pilot, NCAT requires limited, approved access to relevant compliance data. For an Access Control pilot, this may include:

- Identity system data (e.g., Azure AD, Okta, Google Workspace)
- User account lists and assigned roles
- MFA configuration and enforcement status
- Access review records
- Login and authentication activity logs
- Existing policies and procedures
- Prior assessment artifacts (if available)

4.1 Flexible Access Options

Data can be provided through any of the following methods:

- Read-only API access
- Exported CSV or report files
- Screenshots or system-generated reports
- Sandbox or test environment

NCAT operates under a least-privilege model and does not require administrative access.

5. Risk Mitigation & Trust Assurance

This pilot is intentionally designed to be low risk:

- Read-only access only
- No changes made to customer systems
- Scope limited to 1–5 controls
- Full transparency into data sources and usage
- Ability to use offline or exported data instead of live integrations
- Optional sandbox-only operation
- Access can be revoked at any time

6. Pilot Timeline (3 Weeks)

Week 1-2 – Connect & Baseline

Activities

- Confirm pilot scope and selected controls
- Establish approved data access
- Identify required evidence for selected controls
- Map available data to compliance requirements
- Establish baseline compliance posture

Outputs

- Baseline findings summary
- Control-to-data mapping
- Initial compliance posture assessment

Week 2-4 – Automate & Analyze

Activities

- Automate evidence collection workflows
- Apply AI analysis to control compliance
- Identify missing or stale evidence
- Configure continuous monitoring
- Establish alerts and notification triggers



Outputs

- Automated evidence pipelines
 - AI-generated compliance analysis
 - Monitoring and alert configurations
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Week 4-6 – Report & Demonstrate

Activities

- Finalize compliance assessment
- Generate audit-ready documentation
- Identify compliance gaps and remediation actions
- Demonstrate continuous (24/7) monitoring
- Present findings to stakeholders

Outputs

- Pilot results report
 - Control-level compliance assessment
 - Evidence package
 - Gap analysis with recommendations
 - Live monitoring and alerting demonstration
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7. Pilot Deliverables

NCAT will produce:

- Control-level compliance assessment
 - AI-generated evidence mapping
 - Identified compliance gaps and missing artifacts
 - Sample audit-ready documentation
 - Continuous monitoring demonstration
 - Alert and notification examples
 - Clear next-step recommendations for scale or production use
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8. Pilot Success Criteria

The pilot will be considered successful if it demonstrates:



- Secure, low-risk data ingestion
- Accurate mapping of evidence to compliance controls
- Measurable reduction in manual assessment effort
- Identification of gaps and outdated evidence
- Automated documentation generation
- Effective continuous monitoring and alerting

9. Pilot Cost

Pricing Model: Fixed-Price Pilot

Estimated Cost: \$5,000-\$15,000

10. Why This Pilot Matters

CMMC compliance today is manual, expensive, and time-consuming. NCAT demonstrates how automation and AI can materially reduce assessment burden while improving consistency, accuracy, and visibility across compliance activities.

This pilot provides a clear, evidence-based path from manual compliance processes to continuous, automated compliance assurance.

11. Next Steps

1. Select the initial control (recommended: Access Control)
2. Confirm preferred data access method
3. Schedule pilot kickoff

Please reach out below to confirm next steps or request a full demonstration of NCAT.

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