1. DOCUMENT REVISION HISTORY

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<th>Date</th>
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<td>Minor edits, revised and organized Sections 4, 4.1-3, added #4 under Section 4.2, removed quarterly reports references.</td>
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This document will be reviewed at the discretion of the StateRAMP Board a frequency no less than annually.
2. PURPOSE

Continuous monitoring review procedures outline the process to examine each monthly package. The terms continuous and ongoing imply that organizations assess and analyze security controls and information security related risks at a frequency sufficient to support organizational risk-based decisions.

Monitoring security controls is part of the overall risk management framework for information security and the service provider is required to maintain a security authorization that meets the StateRAMP requirements. Performing ongoing security assessments determines whether the set of deployed security controls in a cloud system remains effective considering new exploits and attacks and planned and unplanned changes that occur in the system and its environment over time.

To maintain an authorization that meets StateRAMP requirements, the service provider must monitor their security controls, assess them on a regular basis, and demonstrate that the security posture of their service offering is continuously acceptable.

Ongoing assessment of security controls results in greater control over the security posture of the service provider’s system and enables timely risk-management decisions. Security-related information collected through continuous monitoring is used to make recurring updates to the security assessment package.

Ongoing due diligence and review of security controls enables the security authorization package to remain current which allows state and local governments the ability to make informed risk management decisions as they use cloud solutions.

3. ROLES AND RESPONSIBILITIES

3.1 SERVICE PROVIDER

When a service provider has achieved a StateRAMP Authorized status, the service provider’s security posture is monitored according to the assessment and authorization process. It is the responsibility of the service provider to partner with a StateRAMP certified third party assessment organization (3PAO) to allow for required monitoring requirements.

3.2 STATERAMP PMO

StateRAMP oversees and conducts analysis on the service provider’s continuous monitoring activities and provides information and may advise the State Authorizing Body, who maintains the responsibility on behalf of the State for continuous monitoring in relation to their contract.

3.3 GOVERNMENT AUTHORIZING BODY

State refers to state or local government bodies contracting with service providers who provide and/or use a SaaS, PaaS, or IaaS solution involving the storage, processing, and/or transmitting of government data including PII, PHI, and/or PCI.

The State Authorizing Body manages the review and approval of all continuous monitoring artifacts submitted by the service provider on behalf of the State. The State must review all security artifacts
provided by the service provider, 3PAO, or StateRAMP PMO to ensure the service provider’s security posture meets requirements for the State’s use of the system.

State Authorizing Bodies should ensure their State is monitoring the Plan of Action & Milestones (POA&M) and reporting artifacts as well as any significant changes associated with the service provider’s service offering. States should use this information to make risk-based decisions about ongoing authorization of the system for the State.

3.4 THIRD PARTY ASSESSMENT ORGANIZATION (3PAO)

3PAOs are responsible for independently verifying and validating the control implementation and test results for service providers for continuous monitoring. 3PAOs are responsible for:

- Submitting an assessment report to StateRAMP one year after the service provider’s authorization date and each year thereafter
- Performing announced penetration testing annually
- Performing annual scans of web applications, databases, and operating systems
- Assessing change controls on an ad hoc basis as requested by StateRAMP or the State Authorizing Body for any changes made to the system by the service provider
- Conducting an annual review of subset of 1/3 security controls.

To be effective in this role, 3PAOs are responsible for ensuring that the chain of custody is maintained for any 3PAO-authored documentation. 3PAOs must also be able to vouch for the veracity and integrity of data provided by the service provider for inclusion in 3PAO-authored documentation.

- If scans are performed by the service provider, the 3PAO must either be on site and observe the service provider performing the scans or be able to monitor or verify the results of the scans through other means documented and approved by the State Authorizing Body.

3.5 STANDARDS AND TECHNICAL COMMITTEE

As outlined in the StateRAMP Bylaws Article VI Section 9, the Standards and Technical Committee will consult the PMO on policies, security standards, etc. This committee will have the following responsibilities regarding continuous monitoring:

- Reviewing policy framework for continuous monitoring and security artifacts on a regular basis
- Setting minimum requirements for the PMO to provide the State Authorizing Body regularly scheduled summary reporting of the service provider’s continuous monitoring statuses and changes
- Ensuring the StateRAMP PMO is providing artifacts to all relevant State authorizing bodies in a timely manner

StateRAMP Standards and Framework will undergo periodic and regular review to address current trends and concerns in cybersecurity. Notice will be provided with reasonable time frame for implementation. For the duration of Pilot Program, the Board of Directors may assume the roles and responsibilities of the Standards & Technical Committee.
4. CONTINUOUS MONITORING

The StateRAMP continuous monitoring program is based on the continuous monitoring process described in NIST SP 800-137, Information Security Continuous Monitoring for Federal Information Systems and Organization, and the FedRAMP Continuous Monitoring Strategy Guide in the FedRAMP documentation assets. StateRAMP has attempted to create a process that will meet the diverse needs of state and local governments.

StateRAMP recognizes that cybersecurity verification is not a “one size fits all” implementation. Therefore, to meet State-specific needs, the StateRAMP PMO will partner with the State Authorizing Body, service provider, 3PAO, and the StateRAMP Board to make reasonable accommodations, recommendations, and/or modifications to the standard StateRAMP continuous monitoring processes. Figure 1 provides a visual representation of the continuous monitoring process cycle.

- **Create** a plan for continuous monitoring that elevates awareness of vulnerabilities and utilizes threat protection methods for managing risk events
- **Implement** a program that collects, analyzes, and reports monitoring data
- **Respond** to findings by making decisions to mitigate vulnerabilities at all levels of the organization
- **Review** incidents and themes to increase visibility and awareness to risk
- **Adapt** and enhance your organizational security

Upon obtaining Authorized Status, the service provider is required to maintain a continuous monitoring program. The service provider is required to deliver the documentation outlined below. The StateRAMP PMO will review and analyze the service provider’s continuous monitoring deliverables. This process is required for service providers to retain their Authorized Status. Failure to implement or comply with the continuous monitoring activities required by the State Authorizing Body can result in a change or loss of Authorized Status.
4.1 CONTINUOUS MONITORING PROCESS

1. Continuous monitoring begins when a service provider with a StateRAMP Authorized status who is listed on the Authorized Vendor List enters into a contract with a state or local government.

2. The service provider will partner with the 3PAO to create a continuous monitoring plan that meets the minimum StateRAMP continuous monitoring standards, including all specific requirements provided by the State Authorizing Body.

3. The service provider is responsible for implementing the continuous monitoring plan as agreed upon by StateRAMP and the State Authorizing Body.

4. As outlined in this document, the service provider will send the StateRAMP PMO all continuous monitoring and significant change artifacts at the specified intervals.
   a. The service provider submits all monthly and quarterly reporting materials.
   b. The 3PAO submits all annual documentation and all penetration testing reports.

5. The StateRAMP PMO analyzes all submitted artifacts and creates an executive summary to encompass all submitted artifacts.
   a. The StateRAMP PMO will provide the State Authorizing Body access to view and approve the service provider’s reporting and all the StateRAMP PMO’s analysis.
   b. The State Authorizing Body may request raw evidence from the service provider or 3PAO to review.

6. The State Authorizing Body reviews the service provider’s continuous monitoring artifacts, including the executive summary.
   a. If any party is not satisfied with the findings, the State Authorizing Body, the StateRAMP PMO, and the service provider will meet to define corrective actions which will be incorporated into the POA&M.
   b. Additional continuous monitoring requirements are at the discretion of the State Authorizing Body.

7. The State Authorizing Body approves all continuous monitoring documentation.
   a. Any concerns by the State will be addressed on a case-by-case basis and could affect the authorization status.

8. The StateRAMP PMO receives notification of the State Authorizing Body’s approval.

9. The StateRAMP PMO updates the service provider’s public profile with documentation and most recent State approval as needed.

4.2 STATE RAMP PMO MONTHLY REVIEW PROCESS

1. The service provider must provide monthly vulnerability and compliance scans (in a CSV or similar format), along with raw results and an overall summary report to the StateRAMP PMO.

2. The service provider must mitigate all discovered high-risk vulnerabilities within 30 days, moderate-risk vulnerabilities within 90 days, and low-risk vulnerabilities within 180 days.

3. The service provider with Low or Moderate security category will upload the following monthly documents to the StateRAMP document repository:
   a. POA&Ms
   b. An updated inventory workbook
   c. OS, DB, and web application vulnerability scans
   d. Compliance scan results
   e. Risk Adjustments
   f. Operational Requirements
g. False Positives
h. An overall executive summary of the above items

4. The service provider with high-risk systems is solely responsible for conducting the following activities as stated above. StateRAMP PMO will coordinate a monthly review process with the service provider that will meet the security requirements set forth for by the information system.

5. The StateRAMP PMO will review the submitted documentation. In order to facilitate a successful review, the following requirements must be met.
   a. The POA&Ms must account for all vulnerabilities.
   b. POA&Ms must be remediated within the required timeframes, and evidence of the remediation must be provided.
   c. Past due POA&Ms must include justification with supporting evidence.
   d. All scans must include all inventory components.
   e. Any Risk Adjustments must be accompanied by rationale along with the approver.
   f. False Positives and Operational Requirements must be clearly documented.

6. Findings as a result of the StateRAMP PMO’s review of the monthly documentation may trigger a greater frequency of continuous monitoring activities, as well as impromptu requests for evidence regarding the most recent assessment.

7. Failure to comply with the agreed upon continuous monitoring plan and requirements may result in corrective action or revocation of Authorized Status.

8. The StateRAMP PMO or the State Authorizing Body may require that additional controls be added to the annual 3PAO assessment based on the service provider’s continuous monitoring activity.

4.3 ANNUAL ACTIVITIES

The following activities must take place annually for the service provider to retain their Authorized Status and remain in good standing with the StateRAMP PMO and the State Authorizing Body.

4.3.1 SERVICE PROVIDER ANNUAL ACTIVITIES

The service provider is solely responsible for conducting the following activities on an annual basis:

   a. Policies and procedures for high-risk systems must be reviewed and updated annually.
   b. For moderate and low-risk systems, the service provider must review procedures annually and review policies every three years.
   c. The service provider must insert the updated policy document as an attachment to the StateRAMP System Security Plan (SR-SSP) and submit the updated plan to the StateRAMP PMO one year after the initial authorization date and each year thereafter.

2. Service providers must contract with a 3PAO to assess a subset of their security controls.
   a. The 3PAO will determine which subset of controls are to be assessed, with approximately 1/3 of controls reviewed annually, with all controls reviewed every three years.
   b. The StateRAMP PMO and/or State Authorizing Body may require specific security controls for annual review.
   c. All assessment reports must be submitted to the StateRAMP PMO.
3. Service providers must conduct penetration testing to ensure compliance with all vulnerability mitigation procedures.
   a. Penetration testing must be performed by a 3PAO, and all penetration testing reports must be sent to the StateRAMP PMO.
   b. Additional penetration testing is required when the service provider has made a significant change in their product.
      i. In the case of a significant change, the service provider shall report a self-attestation of penetration testing focused on the specific change.
      ii. Unless required by the State Authorizing Body, this testing does not have to be conducted by a 3PAO but shall be included in the required annual testing by the 3PAO.

4. The Configuration Management Plan must be reviewed, updated and submitted to the StateRAMP PMO.

5. The IT Contingency Plan must be reviewed and updated and submitted to the StateRAMP PMO.

6. An Incident Response Plan test must be conducted, and the corresponding Incident Response Plan must be reviewed and updated.
   a. Record the results of the incident response testing in the SR-SSP in the appropriate control description field indicating when the testing took place, testing materials, who participated, and who conducted the testing.
   b. Insert the updated Incident Response Plan as an attachment to the SR-SSP.

7. The SR-SSP must be reviewed and updated, and submitted to the StateRAMP PMO.

4.3.2 3PAO ANNUAL ACTIVITIES
The 3PAO is directly responsible for conducting the following activities on an annual basis:
1. The development of a security assessment plan that describes the scope of the assessment includes:
   a. Security controls and control enhancements under assessment
   b. Assessment procedures to be used to determine security control effectiveness
   c. Assessment environment, assessment team, and assessment roles and responsibilities

2. Conducting an assessment of the security controls in the service provider’s information system and its environment of operation to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting established security requirements.
   a. Security control assessments include in-depth monitoring, vulnerability scanning, malicious user testing, and insider threat assessment.
   b. Security control assessments for performance and load testing must occur once every three years unless the State Authorizing Body specifically requires more frequent testing.

3. Providing a report of vulnerability and compliance scanning to the service provider and the StateRAMP PMO.

4. Producing a security assessment summary that documents the results of the assessment.

5. Providing the results of the security control assessment to the StateRAMP PMO.