CYBERSECURITY MATURITY MODEL CERTIFICATION (CMMC)

CMMC Assessment Methodology Guide (CM2CAM)

Version 1.0_Baseline. Not for distribution.

INTRODUCTION TO THE CMMC ASSESSMENT METHODOLOGY

To be completed upon release of V1.0

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1.0 PHASE I: PLAN AND PREPARE ASSESSMENT

1.1 ANALYZE REQUIREMENTS

All activities in Phase I are iterative and incremental, and certified assessors should not construe these actions to be single events. Assessors need to continuously review and update the requirements and plan for the assessment as more information is gathers. All the activities in this Phase that are executed in order to complete an initial plan will then be updated as final scoping is completed and the assessor can plan a successful assessment. Scoping may be initially difficult based on an Organization Seeking Certification's (OSC) understanding of CMMC and how it applies to their contract and organization, so the Certified Assessor must factor this into the length of time needed to complete all the Phase 1 requirements. Assessment planning could last from one to three days in duration depending on communications, context, and the ability of the OSC to provide required information.

The Certified Assessor (CA) works with the OSC Point of Contact (POC) to determine the assessment objectives based on business objectives, contractual requirements, and applicable CMMC model scope. In ongoing coordination with an Assessment Sponsor, the CA determines:

- The host unit's target model scope, including target Maturity Level
- The organizational objectives, location(s), scope and boundaries, including any supporting units, connected units, program enclaves, and staff that are able to provide objective evidence and context for the assessment
- OSC processes and process roles and corresponding Objective Evidence (OE)
- A Rough Order of Magnitude (ROM) estimate for the approximate duration and timing for the assessment
- The assessment outputs that will be provided to the OSC's Sponsor
- Reporting requirements to the C3PAO and CMMC AB, as applicable

The list of requirements, scoping, and analysis results and can be contained in a draft assessment plan (template provide in the CA toolkit) or as a separate document.

1.1.1 ASSESSMENT REQUEST RECEIVED BY C3PAO FROM OSC

Unless otherwise notified by the CMMC AB, any OSC can reach to and select any CMMC C3PAO in good standing to submit a Request For Assessment (RFA) through the CMMC marketplace and website. Once the RFA has been received, the C3PAO has 5 business days to respond in writing, e.g., email, automated system response, to the request and assign a Certified Assessor, and team, if applicable. The RFA may include the identification or preference for a specific Certified Assessor, but the final decision for selecting and assigning the Certified Assessor and team lies with the C3PAO.

1.1.2 IDENTIFY CERTIFIED ASSESSOR

The C3PAO reviews the OSC's RFA, considering their certification and quality status, certified level, i.e., ML1-5, skills and experience, geographical location, familiarity with the OSC's type of contract and work, and other factors to align and assign an available CA. Once the CA selection and assignment is completed, the C3PAO notifies the OSC in writing.

1.1.3 IDENTIFY OSC SPONSOR AND OSC POC

If not the initial POC, the Certified Assessor then works with the POC to identify an assessment Sponsor. The Sponsor is responsible for all OSC required actions for an assessment, including the funding and payment for the assessment. If needed, the Sponsor can then delegate a POC to act as assessment coordinator who will work with the CA for planning, preparing and executing the assessment. Only the Sponsor can agree to and sign/approve the assessment scope, once determined through coordination with the CA and C3PAO.

1.1.4 HIGH-LEVEL SCOPING DISCUSSION
Targets: Organization Seeking Certification (OSC) entity, scope, contract information, Maturity Level, etc.
Need to have pre-assessment planning decision gates (if you do not pass, have supporting artifacts, SSP, network diagrams, mapping to policies, processes, etc.)

The CA works with the Sponsor to determine the assessment scope, which consists of the CMMC model scope and the general scope of the OSC. The model scope includes the Maturity Level targeted to be appraised. These are defined by the CMMC model.

The CA works with the Sponsor and/or OSC POC to collect information to define the OU scope, which consists of the organization, host unit, supporting units and any enclaves in scope that will provide OE of their CMMC process implementation.

- Organization: The Legal Entity that will be delivering services or products under the terms of the contract (one or many). They could receive a CMMC Maturity Level, but also can designate a Host Unit.

- Host Unit: The people, processes, and technology that will be applied to the contract (one or many teams that are doing the work). This is the UNIT that is requesting a CMMC Maturity Level

- Supporting Units: The people, processes, and technology that support the Host unit. They will need to be part of the assessment, but will NOT receive a CMMC Maturity Level unless an enterprise assessment is conducted.

1.1.5 DETERMINE, RECORD & REVIEW ASSESSMENT SCOPE AND ASSESSMENT OBJECTIVES

Based on the initial high-level scoping, the CA continues to work with the OSC Sponsor and/or POC, to determine the details on model, assessment, organizational, and contractual boundaries and scope. This may require several iterations with the OSC, but once the final detailed scope is determined by the CA and confirmed/agreed to by the Sponsor, the detailed scoping information is submitted to the C3PAO. The OSC must provide a set of initial OE, such as Systems Security PCAns (SSPs), network diagrams, organizational charts to the CA to determine the scoping specifics. For any potential disagreements about scoping, the CA and the POC need to agree before the assessment can continue.

1.1.5.1. EVALUATING MODEL RECIPROCITY – TBD DRAFT AWAITING DOD POLICY

Reciprocity for alternative models is permitted within the CMMC Assessment Methodology (CAM). The Certified or Provisional Assessor has sole authority to accept results from the examination of controls or practices from an organization's prior assessments/audits/assessments ("examinations") based on alternative models such as Fedramp, NIST 800-181, CMMI V2.0, ISO 27001, or others.

The following assumptions must be validated by the Certified Assessor prior to acceptance of reciprocity:

1. The Examination being presented for reciprocity consideration was conducted by a credentialed assessor/auditor/appraiser ("examiner") on behalf of a certification or regulatory body authorized to award accreditations for that model, i.e., an ISO 17020:2012 certified organization.
2. Each control or practice to be considered for reciprocity must be functionally equivalent to the CMMC practice or control it is replacing, verified by objective evidence, such as documents, verbal or written affirmations, and demonstrations and tests. It is the responsibility of the OSC to present evidence of functional equivalency of that practice or control, and evidence of equivalency is examined, accepted at the sole discretion of the Certified Assessor.
3. The OE used for the requested reciprocity assessment results must be available for review by a C3PAO assigned Certified Assessor to verify.
4. All alternative controls/practices/requirements presented for reciprocity have received a passing score, characterization, or finding. For any given CMMC practice, control or process, there are no allowances for partial compliance or implementation, major nonconformances, weaknesses, or other noncompliances.
5. There is no Plan Of Action and Milestones (POAM), list of non-conformances, or rating deficiencies reported as a result of the examination. Objective evidence must show what has already been done, or put in place, and not what is going to be done.
6. No missing gaps of CMMC practices, controls or processes can be present
7. The reciprocity examination was conducted within 180 days prior to Phase II (onsite) of the CMMC Assessment.

The following rules of evidence apply to all CMMC practices/controls where reciprocity may apply:

1. CAM identifies three evidence types, with at least two being required for each control or practice to be rated as "pass." For controls or practices that are eligible for reciprocity, only one type of evidence will be required, eliminating as much as 70% of the time and effort required to examine the control or practice
2. Additional OE may be required and provided by the OSC when a thread of evidence indicates that there may be a potential issue with a given CMMC practice or set of practices. This will be determined solely by the Certified CMMC Assessor in conjunction with, if applicable, the Assessment Team. This may be done by looking at all related OE, or a suitable sample of OE, again, determined solely by the Certified Assessor
3. Controls or practices eligible for reciprocity must also be examined in the context of the CMMC ML2 "Institutionalization" processes, plans, and policies, and the Certified CMMC Assessor must account for this when interpreting the evidence for the eligible controls or practices.
4. Controls/Practices validated successfully through the use of the reciprocity rules of evidence are to be considered implemented and will not be identified in the assessment report as having met a reduced standard of evidence.

1.1.6 NEGOTIATE AND PROVIDE ROUGH ORDER OF MAGNITUDE (ROM)

The C3PAO, through the CA, works with the Sponsor to determine a ROM estimate of what it will take to successfully execute a CMMC assessment. Once agreed upon by the CA and Sponsor, this ROM estimate becomes the basis for determining:
- The assessment maturity level target
- The scope and boundaries of the OSC
- Approximate duration for planning and preparing (Phase 1) for the assessment, conducting the assessment (Phase 2) and reporting results (Phase 3)
- Nominal timing (month/quarter, etc.) for when the assessment will occur
- Pricing for the assessment, including labor, travel and expenses and other direct costs
- Other needed information to complete the ROM as listed in the CMMC Assessment ROM Template used as the basis for establishing an assessment contract between the OSC and C3PAO

1.1.7 IDENTIFY/MAP OSC PROCESSES AND PROCESS ROLES

Working under the guidance and in coordination with their assigned CA, the OSC provides the CA with:
- A list of all Objective Evidence for the target CMMC Maturity Level
- A list of all the policies, processes and related plans in scope for the OSC
- A list of all personnel with any role in the processes in scope
- All of the above mapped to in-scope CMMC practices and maturity levels

1.1.8 VERIFY AND RECORD OBJECTIVE EVIDENCE (OE) AGAINST ADEQUACY AND SUFFICIENCY CRITERIA
- Assumes that the Assessment method will identify the standard minimum adequacy and sufficiency criteria - this section will simply verify that explain how it comes into play in the assessment.
- Need to determine the thresholds for both adequacy and sufficiency across an organization, host unit, supporting unit, and enclaves

The CA determines and confirms the number of needed interviews, observations, reviews and related OE that is needed for each practice, control or process that corresponds to the organizational functional areas and process roles. This is based on the requirements for OE:
- **Adequacy** – criteria needed to determine if a given artifact, interview response (affirmation), demo or test meets the CMMC practice. Answers the question: "Does the assessment team have the right evidence?"
    - Artifacts: For an artifact to be accepted as evidence in an assessment, it must demonstrate the extent of implementing, performing, or supporting the organizational or project processes that can be mapped to one or more CMMC practices and those artifacts must be produced by people who implement or perform the processes.
    - Affirmations: For an affirmation to be accepted as evidence in an assessment, it must demonstrate the extent of implementing, performing, or supporting the host, supporting function or enclave processes that can be mapped to one or more CMMC model practices; affirmations must be provided by people who implement, perform, or support processes.
- **Sufficiency** – criteria needed to verify, based on assessment and organizational scope, that coverage by domain, practice and host unit, supporting units and enclaves is enough (sufficient) to rate against each practice by the process role performing the work. Answers the question: "Does the assessment team have enough of the right evidence?" All OE must:
    - Cover sampled host units, supporting units and enclaves
    - Cover the model scope of the assessment (target Maturity level)
    - Correspond to the OSC host unit, supporting unit or enclave in the OE collection approach

1.1.9 DETERMINE AND CONFIRM ASSESSMENT OUTPUTS

The CA works with the Sponsor to identify the outputs for the assessment, which include:
- Initial ROM estimate of assessment scope
- Assessment plan and schedule (demonstrating how the requirements in this method ha e been implemented)
- Certification Assessment Readiness Review (CA-RR) results
- Draft and Final Findings
- All recommended in-scope domains and practice pass/fail ratings
- Any potential remediation actions, if applicable

1.2 DEVELOP ASSESSMENT PLAN

Purpose: Record the assessment plan including requirements, agreements, risks, COI, tailoring, and logistics for all Phases. Obtain and record Assessment Sponsor approval of the assessment plan. Based on the scope, requirements and initial ROM estimate, the

assessment plan must be kept up-to-date throughout Phases 1-2, and the final plan submitted during Phase 3 must be reflective of the actual results, timing, events and scope that the assessment covered. The plan must be updated whenever any significant change occurs, including, but not limited to:

- If/when the OSC in-scope government contract changes
- If/when any scope changes to the OSC-C3PAO contract occur
- If/when the maturity level targets changes
- Any change in the OSC organizational scope or functions (added or removed units, added or removed process roles)
- Changes to dates/times or scheduled assessment events, including the scheduled dates for the assessment itself
- Changes to the assessment team
- Any unplanned disruptions, e.g., COVID-19 travel restrictions or protocols, natural disasters, etc. before (Phase 1) or during the assessment (Phase 2)

1.2.1 IDENTIFY ALLOWABLE TAILORING OF ASSESSMENT METHOD

TBD based on Reciprocity Policy

1.2.2 DEVELOP OE COLLECTION APPROACH
Identify methods, techniques, and responsibilities, etc. for collecting and managing OE

- Artifact gathering and availability
- Interviews approach
- Requests for Information (email or surveys)

The OE collection approach is part of the overall assessment plan, and has implications:

- Amount of time and effort expended by the organization in preparing for the assessment
- Ability of the assessment team to make accurate judgments
- Usefulness and accuracy of the assessment results
- Overall cost of the assessment

During the Planning Phase (Phase 1), the OE collection approach must record the use of any virtual data collection techniques, including any risks and mitigations, including how any CUI will be managed and protected.

Participate in a CMMC AB Quality check or requests. During the Conduct Assessment Phase (Phase 2), the assessment team will conduct affirmation sessions (interviews or demonstrations) either in person (face-to-face) or virtually (using video teleconference technology), with participants, (interviewees), from the OSC.

If the OSC has security, e.g., a firewall, that prevents access to artifacts by the assessment team, ensure at least one team member for each team has access to the artifacts, e.g., physically onsite, OSC provided hard copy, or electronic copies.

Table 1.2.2-A: OE Collection Approach Items

Item	Detail
Techniques for collecting artifacts	• Document reviews, demonstrations, access to tool repositories or environments, or presentations • Approach for using prior assessment events for OE collection or readiness review (if used for that purpose)
Techniques for collecting affirmations	Interviews, demonstrations, emails, messaging or presentations
Use of virtual methods for OE collection	Video conferences, teleconferences, and other similar technology
Responsibility for collection of OE	Typically, the OSC Sponsor or POC directs and facilitates this responsibility
Responsibility for verification of OE	Assignment of practices or model components to assessment team members
Summary of initial OE provided by the OSC	• Including any additional projects in the OSC for which OE was requested • Identification of artifacts still needed
A detailed schedule of affirmation-gathering activities	List of participants to be involved in affirmation activities
The schedule for readiness reviews	• Explicit criteria for determining readiness • At least one readiness review shall be conducted

1.2.3 SELECT ASSESSMENT TEAM MEMBERS (ATMs), IF APPLICABLE

This activity involves identifying available personnel, assessing their qualifications, and selecting them to become ATMs.

- Must be CMMC-AB Registered Practitioners, Certified Professionals, or Certified Assessors

- Possess industry domain experience aligned with the OSC
- For CMMC ML3 and above, possess a total of 20 years of aggregate experience
- For CMMC ML1, the minimum team size is one (CA)
- For CMMC ML2, the minimum team size is two (CA + 1)
- For CMMC ML3 or above, the minimum team size is four (CA + 3)

1.2.4 IDENTIFY RESOURCES AND SCHEDULE

Through iterative dialog, the Certified Assessor and the OSC Sponsor determine the resources, cost, and schedule within which the assessment is conducted. The preferences of the Assessment Sponsor, the limits of the method, and the consequent resource, cost, and schedule constraints are balanced to arrive at an optimal assessment plan, and the Certified Assessor has the primary responsibility for verifying that the CMMC Assessment method planning requirements are met, including:

- Recording resource needs
- Identifying assessment participants, recording:
    - The names of people who are candidates for affirmation, e.g., interviewees
    - The names and functions of assessment support personnel (if any)
    - The organizational or project affiliation of participants
- Identify any facilities including the location, seating capacity, and configuration of rooms to be used
    - Identify any specific equipment needed
    - Identify any other assessment resources
- Determine and record schedule constraints
- Determine and record cost and schedule
    - Estimate:
        - The duration of key activities
        - The effort required for the assessment team
        - Any cost associated with using facilities and equipment
        - Any cost associated with incidentals, e.g., travel, meals
- Record detailed schedule for each day of the assessment: show how the team effort estimates are applied over the scheduled assessment duration
- Record criteria and any triggers for when replanning and updating the assessment plan is required, e.g., schedule overruns, unavailability of resources
- Determine any OE or performance data access constraints, e.g., security clearance or classification requirements
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1.2.5 IDENTIFY AND MANAGE CONFLICTS OF INTEREST (COI)

This activity involves identifying and handling COI that may impair an assess team's ability to function objectively. The Certified Assessor is responsible for handling potential COIs by avoiding or developing strategies to manage them

1.2.6 IDENTIFY AND MANAGE ASSESSMENT RISKS AND THEIR MITIGATION & CONTINGENCY PLANS

The CA is responsible for recording and communicating risks and associated mitigation plans to the Assessment Sponsor and ATMs. Given the potential common Risk Sources in Table 1.2.6-A: Potential Common Risk Sources, it is required that the assessment plan includes comprehensive documentation of risks. Assessment Plans with minimal treatment of risks, e.g., no risks, or only one risk, will not be accepted by the C3PAO or AB.

Table 1.2.6-A: Potential Common Risk Sources

Potential Risk Sources	Examples
Personnel	Experience level, availability of ATMs, Assessment Sponsors, interviewees, and POC
Logistics	Team members working in remote facilities including the use of virtual technology during the Conduct Assessment Phase, coordination of reviews for classified artifacts
Facilities	Use of technology for remote affirmations, e.g., dropped lines, video bandwidth
Schedule	Sufficiency of OE as determined during readiness review
Cost	Funding constraints
Data	Protection of proprietary data such as performance data

1.2.7 OBTAIN AND RECORD COMMITMENT TO THE ASSESSMENT PLAN

C3PAO must confirm adequate and appropriate scope before starting.

YES, to some level (Define in description)

Record the results of appraisal planning including the requirements, agreements, estimates, risks, method tailoring, and practical considerations; e.g., schedules, logistics, and contextual information about the organization; associated with the appraisal. The appraisal plan constitutes a contract between the Appraisal Sponsor and the CA, so it is vital that this agreement be formal.

1.3 VERIFY READINESS TO CONDUCT ASSESSMENT

Ensure readiness to conduct the assessment in terms of team preparedness, availability of OE, risks, and logistics in determining the feasibility of the assessment as planned.

1.3.1 PREPARE AND TRAIN ASSESSMENT TEAM

The Certified Assessor verifies that ATMs are sufficiently prepared for performing the planned appraisal activities. This preparation includes ensuring ATMs are familiar with the assessment scope, the assessment method, the assessment plan, and the tools and techniques to be used during the assessment. The CA assigns roles and responsibilities for assessment tasks. The assessment team participates in team building exercises to practice facilitation skills and reach consensus in understanding the team objectives and how they will be satisfied.

1.3.2 IDENTIFY, OBTAIN, INVENTORY, AND VERIFY OE

Obtain information that facilitates preparation and an understanding of the implementation of processes that meet the intent and value of model practices and components across the OSC. Identify potential issues, gaps, or risks to aid in refining the plan.

Need to add the minimum OE criteria needed for rating

1.3.3 PERFORM CERTIFICATION ASSESSMENT-READINESS REVIEW (CA-RR)

Defined as verifying planning and execution preparedness to be able to successfully execute the assessment as planned
Verify that all the requirements and condition covered by the assessment plan are met, and conditions - we need to clarify what criteria meets this requirement (mix of self-assessment or 3rd party)

The purpose of the Certification Assessment-Readiness Review (CA-RR) is to determine whether the assessment team and OSC (host unit, supporting functional units and any enclaves) are ready to conduct the assessment as planned, and in the time allocated. The readiness review addresses several aspects of readiness to conduct the assessment, which include at a minimum: OE readiness, assessment team readiness, logistics readiness, assessment risk status, and overall assessment feasibility. The readiness review results in a decision to continue as planned, replan or reschedule, or cancel the assessment. The Certified Assessor and Appraisal Sponsor are responsible for identifying and recording the criteria that will determine whether an assessment will proceed, but that criteria must be reviewed and approved by the C3PAO and AB.

The readiness review is not intended to be a comprehensive determination of whether an OU will meet any targeted maturity level rating. The CMMC AB does not permit performing a readiness review with the intent of identifying weakness in the OE so the OSC can fix them prior to the start of the Conduct Appraisal Phase (Phase 1).

Verify at a minimum the following five readiness review criteria:
- OE readiness
- Assessment team readiness
- Logistics readiness
- Assessment risk status
- Overall assessment feasibility

Based on all of the above and the assessment objectives, plan and schedule, evaluate if the assessment is feasible without excessive stress, problems or impact on the team and organization. The Certified Assessor must identify and record feasibility criteria in the appraisal plan, e.g., assessment team will work 9-hour days to shorten schedule. If determined there are feasibility concerns, the Certified Assessor must discuss with the Appraisal Sponsor and keep the appraisal plan and schedule updated.

1.3.4: UPDATE THE ASSESSMENT PLAN AND SCHEDULE AS NEEDED, BASED ON CA-RR

Once the results of the CA-RR is completed, the Certified Assessor updates the assessment plan and schedule and communicates the results and outcomes and their potential impact on the assessment.

PHASE 2 – CONDUCT ASSESSMENT

2.1 COLLECT AND EXAMINE OBJECTIVE EVIDENCE

Most of the activities throughout this entire Phase, from subphases 2.1.1 through 2.1.6 are iterative in nature during an assessment.

The purpose of this phase is to examine information about processes implemented in the OSC to meet CMMC practices, controls and processes. The assessment team will verify the sufficiency of OE to determine whether the practices and related components for each in-scope host unit, supporting unit or enclave has been met. The assessment team identifies, describes and records any gaps in processes or exemplary processes related to model practices, controls or processes and presents the results of each day to the OSC during a daily hot wash review described in Phase 2.2.

2.1.1 ASSESSMENT KICKOFF – OPENING BRIEFING

All members of the OSC who participate in the assessment are informed of their role during the assessment, including the OSC staff being interviewed/providing OE, the Sponsor, and the CA and Assessment team. The CA typically briefs assessment participants and other members of the OSC and provides an overview of the appraisal process, purpose, and objectives. The CA also communicates specific information about scheduled events and the locations where they occur during this briefing. Any questions, issues or concerns are discussed and resolved with participants.

2.1.2 COLLECT AND EXAMINE ARTIFACTS

Assumption: Certified Assessor has verified that the organization is prepared for the assessment through a pre-assessment and/or readiness review.

Artifact review is an effective means to gain detailed insight about the processes implemented in the OSC, and how those processes are performed. The OSC must provide a current and organized list of their objective evidence and process mappings from any internal or 3rd party gap analysis as well as the CA-RR results from Phase 1.3.3. For each relevant Practice in the CMMC, the Assessment Team will review and collect Artifacts to demonstrate that the practice is being performed, or that the control, and any related policy, plan or process is effectively implemented.

- The list of OE to be examined is provided to the CA during Phase I

- Artifacts may not have a one-to-one relationship with CMMC Practices, resulting in a requirement for multiple artifacts

- As a Maturity Model, practices must be evaluated for organizational maturity, and their ability to demonstrate habitual and persistent behavior

- It is incumbent upon the Assessment Team to ensure that the artifact is current, and was produced by the individuals who are performing the work

- Artifacts that represent policies and procedures must also demonstrate deployment and adoption by the affected team members

THE CMMC Assessment Methodology recognizes three types of Objective Evidence:

- Artifacts: tangible and reviewable records that are the direct outcome of a practice or process being performed by a system, person or persons performing a role in that practice, control, or process.

- Affirmations: spoken or written word from a person performing a role in an OSC practice, control or process that verifies the performance and resulting outcome of a practice or process

- Observation / Test: real-time demonstration or review of a practice or process being performed.

2.1.3 COLLECT AND EXAMINE AFFIRMATIONS
Certified Assessor schedules, works with POC to identify (in Phase 1) who to interview

2.1.4 OBSERVE CONTROL AND PROCEDURAL DEMOS
Live demonstrations or reviews that the processes and controls are working.

2.1.5 VERIFY OE AND RECORD GAPS

The primary intent of this activity is to derive records, from the OE gathered and reviewed, that describe the gap between what the OE shows and what the appraisal team requires to support a claim that the intent and value of model practices has been met.

It is during this phase when the CA and assessment team verify both OE adequacy and sufficiency.

- **Adequacy** criteria will determine if a given artifact, interview response (affirmation), demo or test meets the CMMC practice. Answers the question: "Does the assessment team have the right evidence?"
  - **Artifacts (examine)**: For an artifact to be accepted as objective evidence, it must demonstrate the extent of implementing, performing, or supporting the organizational practice or control that can be mapped to one or more CMMC practices, and those artifacts must be produced by people who implement or perform the processes.
  - **Affirmations**: For an affirmation to be accepted as objective evidence, it must demonstrate the extent of implementing, performing, or supporting the host, supporting function or enclave processes or controls that can be mapped to one or more CMMC model practices; affirmations must be provided by people who implement, perform, or support processes.
  - **Observation / Test:** For an observation or test to be accepted as objective evidence, it must be observed by an assessment team member, and must be the actual system or control that is used in the production system environment (a screen shot is an artifact)

- **Sufficiency** criteria is needed to verify, based on assessment and organizational scope, that coverage by domain, practice and host unit, supporting units and enclaves is enough (sufficient) to rate against each practice by the process role performing the work. Answers the question: "Does the assessment team have enough of the right evidence?" All OE must:
  - Address the full scope of the assessment (sampled host units, supporting units and/or enclaves)
  - Cover the model scope of the assessment (target Maturity level)
  - Correspond to the OSC host unit, supporting unit or enclave in the OE collection approach

The assessment team methodically works its way through the OE and records any gaps against CMMC model practices, controls, processes, policies or plans. The gaps are recorded as weaknesses or nonconformances for each practice in scope where applicable. The assessment team also records nny in-scope practices determined to be fully compliant.

2.1.6 UPDATE OE REVIEW APPROACH AND STATUS

The OE collection approach provides a means for the assessment team to continuously monitor progress toward sufficient and adequate coverage of the CMMC practices being assessed. The assessment team regularly reviews estimates of any additional OE collection effort and records the status on a minimum of a daily basis throughout the assessment. The OE collection status summarizes the differences between the OE reviewed so far, and the evidence needed to support the completion of the assessment results, including the recommended ratings and findings.

2.2 RATE PRACTICES AND VALIDATE PRELIMINARY RESULTS

These activities in this assessment phase will be iterative based on the daily hot wash results. The assessment team rates each CMMC practice, based on and including any related controls, processes, policy or plan reviewed. The assessment team then reviews and validate their ratings of the in-scope practices with assessment participants from the OSC host unit during the daily hot wash review. The OSC, as appropriate, may then present additional OE, as agreed upon/accepted by the CA, which the assessment team may then use to update or verify practice ratings.

- **In order for a Practice / Control in the CMMC to be rated as Satisfied ("pass"):**
  - The Assessment team must examine and accept **two** of the **three** objective evidence types:
    - Artifact (examine)
    - Affirmation
    - Observation/Test
  - The objective evidence examined must be applicable to the practice, control, and related policy, plan and process being evaluated, and must always include either an artifact or an observation / test
  - The evidence accepted must be adequate, and fully reflect the performance of the control or practice

- o Practices subject to Reciprocity Agreements (TBD), will be subject to a reduction in objective evidence review and will be described in the Tailoring section of the assessment plan, based on any CMMC differences or delta gaps between the in-scope CMMC practices and those of the reciprocity model.

2.2.1 Determine and Record Initial Model Practice Ratings

When the OE for each CMMC in-scope practice has been reviewed, verified, and rated, the assessment team records the initial pass/fail rating and prepares to review it with the assessment participants during the hot wash review. For any CMMC practices, controls and related processes, policies, plans that are controlled by staff across the host unit, supporting units and enclaves, the assessment team records the results for each and uses that to then aggregate to the resulting practice rating at the OSC host unit level.

The CA holds the final interpretation authority for the ratings and their related findings.

2.2.2 Generate Preliminary Recommended Findings

In preparation for validating OE collected (or missing), the appraisal team generates preliminary or recommended findings that summarizes all of the practice pass/fail ratings that indicates the extent to which the in-scope practice, control, or related processes, policies meets the intent of the CMMC practices.   This is done using the Preliminary or Recommended Findings template.

2.2.3 Validate Preliminary Recommended Findings and Ratings

Validation of preliminary findings and ratings is an OE collection activity, and the intent is to validate the assessment team's understanding of the practices, controls and related processes, policies and plans implemented within the host unit, supporting unit and applicable enclave. Feedback from participants may result in modifications to the appraisal team's recorded practice ratings and findings, and OE inventory. This activity is done during each day's hot wash review with the assessment participants. Assessment participants should be told that all additional OE will be verified by the assessment team as adequate, sufficient, and then rated accordingly during the next day's activities.

2.3 Generate Final Recommended Assessment Results

Throughout the course of the assessment, the Assessment team captures and records the status and recommended ratings of each in-scope CMMC practice, control and any related process, policy or plan for each host unit, supporting function or enclave and then aggregates that to the final recommended assessment ratings and findings, including the recommended CMMC maturity level. This is reviewed with the OSC during the final daily hot wash review.

2.3.1 Determine Final Practice Pass/Fail Results

After all OE for each CMMC in-scope practice has been reviewed, verified, and rated, and reviewed during the daily hot wash reviews, the assessment team records the final recommended pass/fail rating and prepares to present the results to the assessment participants during the final hot wash review.

The CA holds the final interpretation authority for the recommended practice ratings and their related findings.

2.3.2 Determine Maturity Level Recommendation
Submitted to C3PAO, final approval by AB after QA audit

Prior to the final daily review, the assessment team records the final recommended pass/fail OSC maturity level rating and prepares to present it and the related assessment results to the assessment participants and Sponsor.

The CA holds the final interpretation authority for the recommended maturity level rating. All CMMC practices within the target maturity level must be rated as a "pass" rating with no major noncompliances or findings. Any deltas between the CMMC and any reciprocity model must also be addressed as pass from a CMMC practice perspective.

2.3.3 Create and Finalize and record Recommended Final Findings

The Recommended Findings template must be updated to it's final recommended state, based on all OE received and reviewed by the assessment team throughout the assessment, including any results from the daily hot wash reviews. It must include pass-fail ratings at the OSC aggregated level, and describe any noncompliances or nonconformances in enough detail as to show how the rating was derived by the assessment team. This includes a summary chart of all CMMC practices and their pass/fail status for each practice as well as the overall recommended maturity level rating.

PHASE 3 – REPORT ASSESSMENT RESULTS

3.1 DELIVER RECOMMENDED ASSESSMENT RESULTS

The CA and, if applicable, assessment team provides the Assessment Sponsor and OSC participants with assessment results and any potential recommendations for improvement. Using the Recommended Findings template, the assessment results are delivered to the OSC Sponsor either during the final hot wash review, or in a separately scheduled final recommended findings review.

3.1.1 DELIVER FINAL FINDINGS

The CA presents the final recommended findings, using the required Recommended Findings template, a summary of the recorded pass/fail status of each CMMC practice within the appraisal scope, as well as additional information that provides the context for any related findings. This activity communicates the final and complete recommended assessment results to the Appraisal Sponsor and OSC participants. These findings may be in a summarized form, but the detailed findings must also be provided as backup information. In addition to the recorded final recommended findings, the details of the CMMC practice ratings are also presented and must included clear traceability from each finding, rating and practice pass/fail status.

As per CMMC assessment reporting requirements, the same results (same version) of findings, practice ratings and maturity level recommendations are then submitted to the CA's C3PAO for initial processes and review. Once the C3PAO completes it's internal final quality review, the recommended results are then submitted by the CA, through the C3PAO, to the CMMC AB for final quality review and rating approval.

3.2 PACKAGE AND ARCHIVE ASSESSMENT ASSETS

The purpose of this phase is for the CA to package, baseline and retain all assessment assets and artifacts.

3.2.1 SUBMIT ASSESSMENT RESULTS PACKAGE

The assessment results package submitted to the C3PAO and AB by the CA, must include the following assessment artifacts:
- The final assessment plan and schedule, and the CA is responsible to verify and update the plan and schedule to reflect the actual final results and outcomes of all assessment activities
- The final recommended Findings and Results, including the recommended Maturity Level, using the required Recommended Findings template.
- Detail practice-level ratings, clearly traceable to each finding and rating results

The CA submits through the required AB assessment system portal, which then generates a notification to the C3PAO, and AB to initiate their quality reviews.

3.2.2 PROVIDE RETROSPECTIVE FEEDBACK TO C3PAO AND AB
Survey go to AB, C3PAO and CA
Standardized survey template (recommend we do have one)
Required: AB, CA
Optional: C3PAO has it's own
Topics covered: Overall Assessment feedback (what went well, what didn't) feedback on CA, feedback on Assessment Team

3.2.3 ARCHIVE OR DISPOSE OF ANY ASSESSMENT ARTIFACTS
The CA is responsible for maintaining and protecting any additional notes and information from the Assessment. These, along with the Assessment Results Package must be retained and protected from a confidentiality, nondisclosure and any other CUI perspective for 3 years.

PHASE 4 REMEDIATION OF OUTSTANDING ASSESSMENT ISSUES

4.1 IDENTIFY REMEDIATION APPROACH

The purpose of remediation is intended to address situations where the initial assessment's target ML rating was not achieved, but only by a narrow margin. Accordingly, if eligible, a remediation follow-on assessment review is then conducted on a limited subset of the targeted CMMC model practices that failed to achieve a passing rating.

The CA is solely responsible for determining and recommending eligibility for remediation to the C3PAO and AB. This must first be reviewed and approved by the C3PAO and AB, and based on a request from the Sponsor to consider the assessment for eligibility.

If approved by the AB, the CA adds a Remedition approach addendum to the previous final assessment plan, which describes in detail, the review steps taken and activities performed in all subphases from Phase 2 and 3 that will be repeated for the remediation.

Planning for a remediation phase in advance of any assessment is strictly prohibited.

4.1.1 VERIFY AND CONFIRM OUTSTANDING ASSESSMENT ISSUES AND REMEDIATION ELIGIBILITY

It is the sole responsibility of the CA to review, verify and confirm any outstanding assessment issues related to a potential remediation assessment. The results of this verification must be recorded in the remediation addendum of the assessment plan. Once confirmed with the C3PAO and AB, and approved, the CA then confirms the remediation eligibility and potential follow-on activities and timing with the OSC Sponsor. All costs of any remediation activities are the sole responsibility of the OSC.

When no more than two CMMC domains or no more than 10% or the total practices in the scope of an assessment do not meet their targeted pass status, the organization may have the option to remediate any failed practices, controls, and related processes, policies and plans weaknesses during an agreed-upon remediation period not to exceed 90 calendar days.
The appraisal team must perform an eligibility analysis. The following criteria must be met for Remediation Eligibility:
• If the failed practices, controls or related processes, policies and plans are not systemic
• If the failed practices, controls, or related process, policies and plans can be addressed and produce expected outcomes within a 90-day timeframe
• If the resulting actions and improvements can be made habitual and persistent within the 90-day timeframe

It is the OSC's responsibility to create a detailed, transparent and specific approach that they will take within the 90-day allowable remediation period. The CA is responsible for reviewing this and then recommending to proceed with the remediation, pending approval from the C3PAO internal quality review board. Once approved or denied by the C3PAO, the CA then notifies the OSC Sponsor that the remediation review will proceed.

The scope of the OSC, including the host unit, supporting units, and any applicable enclaves must be the same scope as the original assessment. The target maturity level must also be the same (remediation reviews cannot raise a ML rating, but may result in a lowered rating, depending on the OE provided. The OSC must use the same CA, unless otherwise directed by the AB/C3PAO, and the assessment team, if applicable must be the same, or a subset of the original assessment team. The Sponsor must also be the same and the people providing OE must be the same people performing the work.

Any mergers or acquisition or other similar organizational change in the OSC that happens between or immediately following the initial assessment (within the 90-day period) will cause the remediation review to stop, and the previous assessment results and ratings will stand.

Only one remediation review is allowed per initial/original assessment. Whatever the final results from the remediation review are, after the CA submits the recommended results to the C3PAO and AB, and their remediation QA reviews are done, the subsequent results and ratings are then final.

4.1.2 IDENTIFY REMEDIATION APPROACH AND UPDATE ASSESSMENT PLAN

Once approved by the C3PAO, and Sponsor, the CA then updates the Assessment Plan Remediation Addendum with the various steps, actions and work that will be taken by the OSC to address their remediation. This is done by describing in the addendum remediation activities table:

- All the steps and activities that will be conducted by the OSC to address/remediate their failed practices, controls, and related processes, policies and plans
- How the remediation results will be verified and reviewed by the CA and, if applicable, assessment team, in a subsequent remediation assessment review
- Any differences or updated and repeated activities and steps from Phases 2 & 3 of the original initial assessment.

The CA and OSC are responsible to ensure that both the previous initial/original assessment results are kept baselined, as well as the updated remediation steps so that the C3PAO and AB can confirm both during their remediation QA reviews.

4.1.3 SUBMIT REMEDIATION APPROACH TO C3PAO AND AB FOR VERIFICATION TO PROCEED

Once the approach is updated in the Assessment Plan, and cover both the OSC's actions and subsequent assessment review actions are identified, the submitted to the C3PAO for review and approval to proceed. The C3PAO notifies the CA and Sponsor of their approval to proceed, and then the CA is responsible for monitoring and verifying that the remediation approach is being followed by both the OSC and by the assessment team, if applicable, in a subsequent remediation assessment review.

4.2 EXECUTE REMEDIATION APPROACH AND REVIEW

4.2.1 REVIEW ALL OUTSTANDING ISSUES AGAINST UPDATED OE

Any new OE provided by the OSC must be reviewed by the CA and, if applicable, assessment team. The CA has the sole authority and is required to follow any related OE threads for any other practices, controls, or related processes, policies and plans for any practices that were previously rated as passing. Otherwise, the focus of the remediation assessment review is to verify that every failed practices from the initial original assessment have been adequately addressed by the OSC. This is done following the same steps and requirements from all applicable previous Phase 2 and 3 subphases and activities.

4.2.2 UPDATE PREVIOUS PRACTICE PASS/FAIL RESULTS AND FINDINGS

The CA, and if applicable, assessment team then updates any previously failed CMMC practices and all related assessment findings. It is the CA's responsibility to preserve both the updated and previous pass/fail assessment results for historical baselining.

4.2.3 VERIFY AND DETERMINE REMEDIATED RECOMMENDATION OF MATURITY LEVEL RATING

The CA, and if applicable, assessment team then updates any previously failed CMMC Maturity Level, if achieved. An updated ML rating is recorded in the updated assessment findings and results and submitted to the C3PAO and then AB for final QA review and approval.

4.2.4 REPORT REMEDIATION RESULTS
A "delta" assessment remediation package and results, including all the required artifacts cited in phase 3.2.1 above. All steps/activities in Phase 3 are then completed with both the original assessment results and the subsequent remediation results and ratings. These are submitted to the C3PAO for their internal quality board review, and those results are then submitted to the AB for it's final quality review and final assessment rating approval.

4.3: ADJUDICATION

It is the goal of the AB, C3PAOs, and all CAs to perform and certify assessments with utmost integrity in an unbiased and professional manner. But, there will be times where the Assessor and the OSC may disagree on the results of an assessment.
- An adjudication request is submitted when the OSC is in disagreement with the CA and Assessment Team as to the outcome of the assessments.
- The Adjudication processes is designed to provide both transparency and rigorous review for the OSC, and due process for the CA, Assessment Team, and C3PAO
- It is the goal of the adjudication process to validate the results of the assessment, the performance of the CA and assessment team, and to be an unbiased third party that is the final arbiter of assessment results.
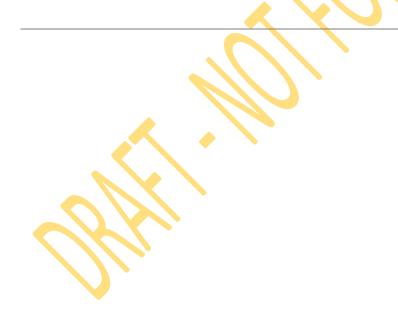
CMMC Assessment Adjudication

Upon completion of a certified assessment, an Organization Seeking Certification (OSC) that does not achieve their planned CMMC Maturity Level, and believes the assessment result was due to errors, misinterpretation, malfeasance, or ethical lapses by the Certified Assessor or C3PAO, is entitled to submit an adjudication request for consideration to the Accreditation Body (AB).

The OSC must submit their adjudication request, along with specific detailed description and/or evidence of such lapses in writing along with the list of the controls and/or practices in question, within 30 calendar days after the completion of the Phase II (onsite) portion of their assessment.

Upon receipt of the adjudication request, a Certified Quality Auditor (CQA) from the AB staff will acknowledge receipt of the request, and perform a preliminary evaluation of the Assessor or C3PAO's certification, training, quality status/standing, and licensing, and will validate their adherence to the Code of Professional Conduct (CoPC) and the CMMC Assessment Methodology (CM2CAM). The OSC will be notified of the result of the preliminary evaluation, and given the opportunity to either accept the recommendation of the CQA, or to request a secondary, more detailed, evaluation.

A secondary evaluation will be conducted if the OSC has a reasonable belief that the preliminary evaluation and evidence provided did not address the issues raised in the adjudication request. During a secondary evaluation the CQA, who is also a Certified Assessor in good standing, will plan and conduct, for a nominal fee, an onsite "delta or remediation assessment" of the controls and/or practices in question, and once completed, will submit the results, along with a recommendation, to the AB. AB quality staff will evaluate the result of the secondary evaluation and inform the OSC of the final result of the adjudication process.

Adjudicated assessments that result in a successful CMMC Maturity Level certification for the OSC will retain the validity period of three years from the last day of Phase II (onsite) of the original assessment.

APPENDIX XX – CHANGE LOG

REVISION HISTORY

Revision #	Change(s)	Published Date
1.0	Initial release	xxxx

SUMMARY OF VERSION CHANGES IN CURRENT VERSION

Change	Description of Change(s)
0	Initial release (no change)

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