CDC SHARE IT Act Automation – Solution Execution Model

# Purpose

This document describes the execution model for the CDC SHARE IT Act automation solution. The solution ensures decentralized generation of repository-specific code.json files by Code Owners and centralized aggregation and publishing to the public CDC website.

# Execution Model Overview

1. Code Owners execute their respective repository client (GitHub, GitLab, Bitbucket, TFS).  
2. The client generates a repository-specific code.json file.  
3. Code Owners review and validate their code.json locally.  
4. The finalized code.json is uploaded to a central shared location (e.g., OneDrive, S3, or GitLab).  
5. The Central Automation Server runs on a scheduled basis (weekly) to:  
 - Collect all individual code.json files from the shared location.  
 - Merge them into a single unified code.json.  
 - Validate the final output.  
 - Publish the code.json to https://www.cdc.gov/code.json via CI/CD pipeline.

# Roles and Responsibilities

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| Role | Responsibility |
| Code Owner | Generate, review, and submit repository-specific code.json. |
| OCIO EA Team | Operate and maintain the automation scripts and infrastructure. |
| WebOps / ITSO | Publish the finalized code.json to the CDC public website. |

# Benefits of this Model

- Distributed responsibility and ownership by Code Owners.  
- Local review capability ensures accuracy of metadata.  
- Centralized automation for efficiency and consistency.  
- Compliance with the SHARE IT Act using standardized processes.

# Notes

This model provides scalability, transparency, and traceability. All code.json files are versioned and auditable. The central merge and publish process ensures uniformity and governance control.