EDM Council
Overview of CDMC Initiative

January 2021
EDM Council Overview

**Our Mission:** Elevate the practice of data management and analytics through best practices, data standards, research and education.

The EDM Council is the Global Association created to elevate the practice of Data Management and Analytics as a business and operational priority.

The EDM Council is a 501(c)(6) non-profit dedicated to serving industry

- **Authors of DCAM (Data Management Capability Assessment Model)**
  Experience in building industry accepted frameworks for Data management

**Worldwide**
Americas, Europe, Africa, Asia, Australia

200+ Member Organizations, including Tier 1-2, and Regulators

10,000+ Professionals

Established 2005
7 Components of the Data Management Capability Assessment Model

**DCAM Highlights**

- **Deployed Globally by Membership including Regulators**
  - Over 60% of EDMC Membership utilizing maturity models use DCAM

- **Latest DCAM v2 Content**
  - **Advanced Analytics** – data management capabilities for provisioning of Data for AI & ML Applications
    - Adding 8th component w/ v 2.2 for complete analytics program assessment
  - **Data Ethics** – advanced analytics exposes an organization to increased risk from the misuse of data; data use and outcome is not simply a legal question but also an ethical question

- **Additional Digital Improvements**
  - **DM Business Glossary** – applied the EDMC Data Management Business Glossary
  - **Standard Language** – improved the consistent use of language and the readability
  - **Business Process** – emphasize the role of the business process in defining requirements and troubleshooting root-cause-fix; introduce the requirement for standard E2E DCAM DM processes
  - **Rating Guidance Standard Language** – consistent language to describe the six assessment scores of a sub-capability to simplify the respondent scoring process
8.0 Analytics Management – Published October 2020

8.1 The Analytics Function is Established
- Analytics function is formalized and funded

8.2 Aligned with Business and Data Strategy
- Driven by Business Strategy and supported by Data Strategy

8.3 Aligned with Data Architecture
- Data Architecture is Respected

8.4 Aligned with Data Quality
- Data Quality Understood and Improved

8.5 Platform Designed and Operational
- Operational Platform Established

8.6 Model Operationalization Established
- Models can run in Production

8.7 Culture and Education Needs Managed
- Active Management of Culture and Skills
FRAMEWORK – FOUR USE CASES

A data management best practice paradigm …

- Provides a common and measurable framework
- Translates industry expertise into operational standards
- Establishes common language for data management
- Documents capability requirements
- Grounded in evidence, formality and organizational engagement
- Evidence-based artifacts

Enables organizations with trust and confidence that the data they are relying on is accurate, complete, rationalized and actionable.
Cloud Data Management Capability Working Group (CDMC)

Problem Statement:
There are no consistent industry best practices for applying data management capabilities while migrating data, applications and operations to CLOUD environments.

CLOUD Challenges:
Cloud implementations face a variety of data, technology and planning challenges that are repeatedly revisited on nearly every implementation.
Cloud Data Management Capabilities (CDMC) – Industry Engagement

226 Individuals representing 70 organizations, including 14 GSIBs, have attended sessions since May 2020

CDMC Working Group

- Morgan Stanley
- REFINITIV
- Goldman Sachs
- J.P. Morgan
- CAPCO
- WELLS FARGO
- Deutsche Bank
- UBS
- Citi
- TD Bank
- HSBC
- ING
- BNP PARIBAS
- LLOYDS BANK
- BARCLAYS
- Nasdaq
- CREDIT SUISSE
- Standard Chartered
- Freddie Mac
- Tradeweb
- ICAP
- KPMG
- PayPal
- NORTHERN TRUST

Cloud & Technology Provider Certification

- Amazon Web Services
- Microsoft Azure
- Google Cloud
- IBM Cloud
- Snowflake
- Collibra
- Informatica
- BigID
- Privitar
- Data.world

Regulatory Engagement

- US: Federal Reserve
- UK: Bank of England
- Germany: BaFin
- Canada: OSFI
- Australia: APRA
- Singapore: MAS
- US: NCUA
- Swiss: FinMA
- EU: EBA, ECB, DORA Act
- UK: FCA

Supporting materials

- Training Courses
- Cloud Service Certification
- Open Source FINOS Tools

FUTURE: Other Industries

- Life Sciences
- Consumer Tech
- Government
- Defence

CDMC Working Group Publication on track for 2021 Q2

- 2020
  - CDMC Group formed
  - Topics prioritised by urgency
  - 9 of 45 sub capabilities completed
  - 20 further sub capabilities drafted
  - Legal Terms group formed
  - CDMC controls appear at CSPs
  - FINOS engaged on OS delivery

- Q1
  - Final capabilities defined by working group by end of Q1
  - Ongoing Review Committee refinement & ratification
  - Regulators engaged by EDMC
  - First CDMC features available on CSP and tech partner platforms

- Q2
  - Complete and publish full CDMC doc
    - Review Committee and Exec Advisory Board ratify final capabilities
    - Final edit and publication of CDMC
    - Certified CDMC features available on CSP and tech partner platforms

V1.0 FINAL
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<th>Component</th>
<th>Capability</th>
<th>Sub-Capability</th>
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<td><strong>1 Data Accountability &amp; Governance</strong></td>
<td>1.1 Data Ownership</td>
<td>1.1.1 Data Owner roles and responsibilities should be defined and agreed</td>
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<td></td>
<td>1.2 Data Sourcing &amp; Authorities</td>
<td>1.2.1 Data sourcing is governed for accuracy, data duplication control and data protection</td>
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<td>1.2.2 Data consumption is governed for accuracy, trustworthiness and usage</td>
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<td>1.2.3 Data sources are authorized and certified</td>
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<td>1.2.4 Standardisation and Automation of Data Provision and Consumption</td>
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<td>1.2.5 Data Feed SLAs</td>
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<tr>
<td><strong>2 Data Cataloguing &amp; Classification</strong></td>
<td>2.1 Data Cataloguing</td>
<td>2.1.1 Data cataloging is defined, scoped and actively used</td>
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<td></td>
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<td>2.1.2 Metadata is discoverable, enriched, managed and exposed in Data Catalogs</td>
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<td>2.1.3 Data catalogs are interoperable across multi and hybrid cloud environments</td>
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<td><strong>3 Data Accessability &amp; Usage</strong></td>
<td>3.1 Data Classification</td>
<td>3.1.1 Rights expression and management</td>
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<td>3.1.2 Rights enforcement</td>
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<td>3.1.3 Access and entitlement tracking</td>
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<tr>
<td><strong>4 Data Protection &amp; Privacy</strong></td>
<td>4.1 Securing Data</td>
<td>4.1.1 Data should be encrypted at rest, in motion and while in use</td>
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<td>4.1.2 Ability to obtain evidence of appropriate controls in line with policies</td>
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<td>4.1.3 Data obfuscation techniques are defined, scoped and applied based on risk and utility</td>
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<td>4.1.4 Data Loss Prevention</td>
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<td>4.2 Data Privacy</td>
<td>4.2.1 A data privacy framework exists to meet privacy obligations and requirements</td>
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<td>4.2.2 Operationalizing the privacy framework</td>
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<td><strong>5 Data Lifecycle Management</strong></td>
<td>5.1 Profiling &amp; Quality</td>
<td>TBD</td>
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<td>5.2 Data Lifecycle Management Plan</td>
<td>TBD</td>
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<td>Data must be archived / purged</td>
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<td><strong>6 Data and Technical Architecture</strong></td>
<td>6.1 Data Provenance / Lineage</td>
<td>TBD</td>
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<td>Data backup, resilience &amp; recovery</td>
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<td>Portability &amp; exit plan</td>
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<td>Usage &amp; cost transparency</td>
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CDMC Updated Document Structure

CDMC Document Structure

CONTENTS

The CDMAS Framework (Language and Concepts)

Strategies

Content

Approach

Agendas

CDMC Use Cases

Framework

Assessment

Support Materials

Papers/Books

Tracking

CDP Guidance on Certification

How to Use This Document

Business Summary

CDMC Updated Document Structure

CDMC Document Structure

Editing Process

• New content added as approved by EAB

• Technical Editing

• Business Editing

• Document completed

• Final Editing

• Published

4.1.3 Data is secured, and Controls are established

Abstract

CDMC Document Structure

Confidential

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EDM Council CDMC Work Group - Governance Structure

**CDMC Working Group Co-Chairs:**
Morgan Stanley – Richard Perris, Exec Director
Refinitiv – Oli Bage, Global Head Business Data Architecture

**CDMC Project Coordination:**
Capco – Jubair Patel, Principal Data Strategy & Data Architecture

### Purpose
- **Steering and final oversight of working group deliverables**

### Commitment and Role

**Commitment:** 1.5 hours/month  
**Chair:** John Bottega, EDM Council President  
**Participants:** 20-25  
**Inputs:** Executive Summary of WG progress

**Commitment:** 4-6 hours/month  
**Chair:** Mike Meriton, EDM Council, COO  
**QR Review:** Mark McQueen  
**Participants:** 20-25  
**Inputs:** Draft cloud management principles, framework and questions from Working Committee

**Commitment:** 4-6 hours/week  
**Facilitator:** Jubair Patel, CAPCO  
**Participants:** 7-10 (delegate mandatory)  
**Inputs:** Regular action log, RAID, project deliverables

- **Reviews and comments on WG material**
- **Reviews input in alignment to DCAM**
- **Accountable for reporting to Exec Advisory Board**

- **Commit time to meet & produce CDMC deliverables**
- **Responsible for actioning Review Board feedback**
- **Convenes and manages sub-committees where required**
CDMC EXECUTIVE UPDATE

Program Performance

CDMC Program Participation (since May start)
- 160+ Individuals
- 58 organizations with active participation

CDMC Press Release – Issued
- Covered in 22 key publications
  - Tier-One Business Press: Wall Street Journal (US); Bloomberg (US); Yahoo! Finance (US); MarketWatch (US);
    Business Insider (US)
  - Financial Press: Seeking Alpha (US); Benzinga (US); Finextra (UK); MarTech (US); Traders Mag (US);
    Mondo Visione (UK); Markets Media (US); Financial IT (UK); Asset Servicing Times (UK); Data Management Insights
  - International Press: UC Media, Baijiahao, SOHU (China); CNET; SankeiBiz (Japan); A Trade (Brazil); APA-
    OTS(Austria Press Agency)
- 20,000+ Views; 500+ reacted with social media posts
- 2000 impressions on EDM Council’s social channels
- CDMC Working Group has received 12 new organizations since the press release

CDMC Program Output
- Focus: Data Cataloguing; Classification; Privacy; Protection
- 31 review and working group meetings held
- 12 sub-capability documents defined
  - 2 sub-capabilities complete
  - 7 sub-capabilities in Draft or Review
  - 3 sub-capabilities being scoped
Cloud Data Management Capabilities (CDMC) Work Group
Benefits to the Industry

Industry Benefits:
This Work Group will align global industry cloud requirements with Cloud Service Providers capabilities

**INDUSTRY**

✓ Share Industry view of priorities with Cloud Service Providers

✓ Align industry response to regulatory challenge around cloud data management

✓ Collaborate with Industry CSPs to **benchmark and accelerate** future cloud implementations

**CLOUD SERVICE PROVIDERS**

✓ Engaged with **valuable customer base** providing direct feedback on current challenges and concerns

✓ **Increased adoption of cloud services** across industries with data management priorities

✓ Influence and **leverage industry framework** for thought leadership and serving the industry

**Consistent set of capabilities and best practices to accelerate cloud adoption**