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.
**Current Member Overview – Q3/Q4 2020**

50+ Organizations and 160+ participants currently engaged in CDMC including:
- 4 Major Cloud Providers,
- 30 Financial Industry Organizations,
- 6 Consultancies,
- 10 Technology Providers
CLOUD DATA MANAGEMENT CAPABILITY WORKING GROUP (CDMC)

Goal:
Launch an Industry Workgroup to Establish industry Best Practice Guidelines in implementing data management in the era of cloud computing:

Objectives:
Propose best practice guidelines to cover the core capabilities for cloud data management. Topics including:

- Cataloguing & Classification
- Data Accountability & Governance
- Data Access & Usage Tracking
- Lifecycle Management
- Data Security & Privacy
- Commercial Best Practices

Expected Outcomes
1. Create an Open Source CDMC Best Practice Industry Framework as an integral part of your overall data management best practice
2. Identify common Cloud Data Management Capabilities & control criteria
3. Provide Industry Feedback to improve cloud capabilities and accelerate adoption
EDM COUNCIL OVERVIEW

Our Mission - "Global Advocates of Data Management"

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

EDM Council Focus...

- Implementing Best Practices utilizing DCAM Framework
- Training and Certification
- Driving Standards to Enable Innovation via Open Source ontology models (eg: FIBO)
- Research, Benchmarking and analyzing the Industry
- Supporting Data Related Regulation and Compliance
- Networking the Global Community of Data Management and Analytics Professionals

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DATA MANAGEMENT CAPABILITY ASSESSMENT MODEL - DCAM

- DCAM was developed in 2015 by the EDM Council as a **formal framework** to assess data management capabilities using a consistent scoring model.
- DCAM has been adopted by **60% of organizations globally** including regulators that utilize maturity models.

- **DCAM** is a principles-based capabilities framework – the “**what to do**” for comprehensive data management best practice.

- Provides a **scoring/benchmark guide** usable by companies to assess their capability maturity.

- A capability framework gives the **flexibility** for all companies on “**how to**” meet these requirements with their own approach and innovation.

- EDMC will leverage the approach used to build DCAM to support this effort, to build the CDMC Best Practice Framework.

- CDMC Framework will be maintained by EDMC and made available as a Free License to industry.
CDMC Program Performance

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

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

CDMC Press Release – Issued Thursday, July 30th
- 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
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

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**Working Group**

- **Purpose:**
  - Steering and final oversight of working group deliverables
  - Accountable for reporting to Exec Advisory Board
  - Responsible for actioning Review Board feedback
  - Convenes and manages sub-committees where required

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

- **Sub-groups (?)**

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**Review Committee**

- **Chair:** Mark McQueen, Head CDMC
- **Commitment:** 4-6 hours/month

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**EDMC Executive Advisory Board**

- **EDMC Chairs:**
  - (1 ½ hours/month)

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**QR Review**

- **Chair:** Mike Meriton, EDM Council, COO
- **Participants:** 20-25
- **Inputs:** Draft cloud management principles, framework and questions from Working Committee

- **Commitment:** 4-6 hours/month

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**PM**

- **Jubair Patel, CAPCO**
- **Commitment:** 4-6 hours/week

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**QR Review:**

- **Mark McQueen**
- **Commitment:** 4-6 hours/month

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**QR Review:**

- **Mark McQueen**
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Purpose
The objective of the CDMC Work Group is to develop a Best Practice framework for implementation and adoption of Cloud services with a focus on Data Management Capabilities unique to Cloud.

Review Committee
The Review Committee extends SME review to gain wider industry insight and context.
- Review Committee is not expected to provide a "sign off" on sub-capability detail
- Review Committee sessions should focus on feedback discussion, not Dropbox comments.

Executive Advisory Board
- Post Executive Advisory Board – a week for final review and sign off by no objection.
- If no objections are received within a week following the EAB presentation, the sub-capability will enter change control
## CDMC Framework Development on One Page – Q3 2020

<table>
<thead>
<tr>
<th>Original Data Management Topics</th>
<th>CDMC Framework</th>
<th>Status</th>
<th>Leads</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cataloguing &amp; Classification</strong></td>
<td><strong>1.1 Data Cataloging is defined, scoped and actively used</strong>&lt;br&gt;1.2 Metadata should be discoverable, enriched, managed and exposed in Data Catalogs&lt;br&gt;1.3 Data Catalogue Inter-operability**&lt;br&gt;2.1 Data Classifications are defined, applied and actively used**</td>
<td>In Review&lt;br&gt;In Review&lt;br&gt;Complete</td>
<td>• Sumanda Basu (SocGen)&lt;br&gt;• Oli Bage (Refinitiv)&lt;br&gt;• Chris Grote (IBM)&lt;br&gt;• Matt Kniess (KPMG)&lt;br&gt;• Michael Murphy (DB)&lt;br&gt;• Rich Perris (Morgan Stanley)&lt;br&gt;• Jen Code (AWS)&lt;br&gt;• Aurko Joshi (Collibra)</td>
</tr>
<tr>
<td>Data Accountability &amp; Governance</td>
<td><strong>2.1 Data Classifications are defined, applied and actively used</strong></td>
<td>Complete</td>
<td>• Kate Taylor (Morgan Stanley)&lt;br&gt;• Mose Tronci (GCP)&lt;br&gt;• Sumanda Basu (SocGen)</td>
</tr>
<tr>
<td>Data Accessibility &amp; Usage</td>
<td><strong>2.1 Data Classifications are defined, applied and actively used</strong></td>
<td>Complete</td>
<td>• Ben Whittam Smith (Refinitiv)&lt;br&gt;• Aurko Joshi (Collibra)</td>
</tr>
<tr>
<td>Data Lifecycle Management</td>
<td><strong>3.1 Data must be encrypted at rest, in motion and at app level</strong>&lt;br&gt;3.2 Collection of evidence of appropriate encryption in place&lt;br&gt;3.3 Data must be sufficiently protected within the SDLC and within non-production environments&lt;br&gt;3.4 Sensitive data must be masked, obfuscated or tokenized&lt;br&gt;3.5 Data Loss protection and Exfiltration control&lt;br&gt;4.1 Assess and evaluate compliance and risk against regulatory obligations.&lt;br&gt;4.2 Establish and maintain a privacy framework and procedures.&lt;br&gt;4.3 Respond to data subject (rights) requests and regulatory enquiries.**&lt;br&gt;</td>
<td>Drafting&lt;br&gt;Drafting&lt;br&gt;Scoping&lt;br&gt;Scoping&lt;br&gt;Scoping&lt;br&gt;Drafting&lt;br&gt;Drafting&lt;br&gt;Drafting</td>
<td>• Rich Perris (Morgan Stanley)&lt;br&gt;• Effie Kilmer (Azure)&lt;br&gt;• Nick Lewins (Azure)&lt;br&gt;• Balaji Gopalan (AWS)&lt;br&gt;• Donna Goddard (Refinitiv)&lt;br&gt;• Ilya Epstein (AWS)&lt;br&gt;• Michael Murphy (DB)&lt;br&gt;• Jen Code (AWS)</td>
</tr>
<tr>
<td>Data Protection &amp; Privacy</td>
<td><strong>3.1 Data must be encrypted at rest, in motion and at app level</strong></td>
<td>Drafting&lt;br&gt;Drafting</td>
<td>• Oli Bage (Refinitiv)&lt;br&gt;• Matt Kniess (KPMG)&lt;br&gt;• Chris Grote (IBM)</td>
</tr>
<tr>
<td>Commercial Practice</td>
<td><strong>Portability and Exit Plan</strong>&lt;br&gt;<strong>Data Architecture Best Practice Assessment</strong>&lt;br&gt;<strong>Usage and Cost Transparency</strong></td>
<td>Drafting&lt;br&gt;Drafting&lt;br&gt;Drafting</td>
<td>• Oli Bage (Refinitiv)&lt;br&gt;• Matt Kniess (KPMG)&lt;br&gt;• Chris Grote (IBM)</td>
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</table>

### Supporting Artefacts

<table>
<thead>
<tr>
<th>A.1 Personas / RACI mapping to CDMC Capabilities</th>
<th>Drafting</th>
<th>• Oli Bage (Refinitiv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.2 Data Cataloguing: Example Information Model</td>
<td>Drafting</td>
<td>• Matt Kniess (KPMG)</td>
</tr>
</tbody>
</table>
Industry Benefits:

This Work Group will align global financial 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
Objective:

• Provide broad participation from the FS Industry to assure CDMC fully reflects FS industry requirements

Upcoming Q3/Q4 2020 Sub-Capability Work Groups for your Company Participation:

• Data Encryption
• Data Privacy
• Data Entitlements and Access Tracking
• Data Ownership
• Data Sourcing and Authorities

Notification Process:

• For potential company participation please contact Mike Meriton, EDMC COO at mmeriton@edmcouncil.org
• For additional SME participation for an existing participating firm please contact Jubair Patel, CDMC Project Leader, with your SME candidates at Jubair.patel@capco.com