Dubai Data Classification Framework
EVERYONE BENEFITS FROM DUBAI DATA

DUBAI DATA
THE WORLD’S MOST COMPREHENSIVE AND AMBITIOUS DATA INITIATIVE

“Our aim is not to have the most data, but to unleash the greatest value from data, creating new opportunities and improved experiences for all.”

His Highness Sheikh Mohammed bin Rashid Al Maktoum
On the announcement of the Dubai Data Law, October 27th, 2015

DEFINING DUBAI DATA KEY TERMS

DATA
Any organized or non-organized set of inputs, facts, concepts, instructions, observations or measurements, that can be interpreted, exchanged, processed.

BIG DATA
Extremely large amounts of data that may be analysed to reveal patterns, trends, and associations. Typically answers ‘what?’ questions.

RICH DATA
What Big Data turns into after being subject to deeper, often qualitative analyses, extracting insights. Typically answers ‘why?’ questions.

ALL DATA

BIG DATA

SHARED DATA

OPEN DATA

RICH DATA

DATA

DUBAI DATA
Any data relating to any aspect of the Government, economy, culture and life within the Emirate of Dubai.

OPEN DATA
Data published by the Government or private sector entities, to be used or exchanged with individuals or third parties openly.

SHARED DATA
Data made available for sharing and re-use among entities, subject to certain terms and conditions.

Source: neXgen analysis
Classify Datasets

1. Dataset Identification
   1.1 Identify priority datasets for classification

2. Dataset Classification
   2.1 Classify the attributes
   2.2 Split dataset based on attribute classification
   2.3 Identify attributes causing a Secret, Sensitive, or Confidential scoring in order to arrive at open classification

3. Classification Review & Approval
   3.1 Review classification by Smart Dubai Office
   3.2 Review and agree on final classification by Smart Dubai and Department

Source: neXgen analysis
1 – Dataset Identification

1.1 Identify priority datasets for classification:

- Do any of the following apply to the Dataset?
  - Part of Primary Registry
  - Strategic alignment with Smart Dubai priorities (in particular Smart Economy and Smart Living)
  - User demand for the data
  - Government efficiency benefits
  - Service improvement benefits
  - Economic growth benefits
  - Transparency/accountability benefits

- If yes, go to Priority Dataset.
- If no, go to Regular Dataset.
2 – Dataset Classification
Types of Classification

- **Open Data:** Openly Disclosed to everyone
- **Shared Data:** Owned by entities is made available for sharing and re-use by other entities
- **Confidential:** Shareable within certain groups subject to strict controls
- **Sensitive:** Shareable across entities according to professional responsibilities
- **Secret:** Shareable in a limited way between certain individuals under strict controls

Source: neXgen analysis
2 Classification Workflow
Understanding the decision making process

- **Input Department Dataset**
- **Disclosure affects National Security**
- **Disclosure violates existing law**
- **Does data disclosure negatively impact on...**
  - The ability of the agency to conduct its tasks
  - Individuals’ privacies
  - Competitiveness and continuity of companies/institutions
  - The course of justice and security processes
  - Public health and safety

2.1 Classify the attributes
2.2 Split dataset based on attribute classification
2.3 Review Dataset To determine attributes to be removed to arrive at open classification

- **Shared Data**
  - Profile risk to determine damage level in order to classify
  - Limited
  - Significant
  - High

- **Confidential Data**
- **Secret Data**
- **Sensitive Data**

Open Data

Source: neXgen analysis
2 Classification Assistant
Smart Dubai provided tool to aid data classification

Use the classification assistant to help determine the dataset classification through a series of questions

<table>
<thead>
<tr>
<th>Does data disclosure affect the national security?</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>To which level, data disclosure will negatively impact on ...</td>
<td>Impact level</td>
</tr>
<tr>
<td>Violation of any of the existing legislations or laws?</td>
<td>High</td>
</tr>
<tr>
<td>The ability of the agency to conduct its tasks?</td>
<td>Significant</td>
</tr>
<tr>
<td>Individuals’ privacies?</td>
<td>Limited</td>
</tr>
<tr>
<td>Competitiveness and continuity of companies/institutions?</td>
<td>Insignificant</td>
</tr>
<tr>
<td>The course of justice and security processes?</td>
<td></td>
</tr>
<tr>
<td>Public health and safety?</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Open</td>
</tr>
</tbody>
</table>
2.3 – Process for Disagreement with Classification from the Assistant Tool

If classification is different from the Classification Assistant suggestion:

Determine the classification based on the Department’s understanding:

Then provide explanation to support the revised classification:
3 Classification Review & Approval Process

Smart Dubai Office Review

3.1 Agree with the Classification from the department

3.2 Joint Review between Smart Dubai and Department

Smart Dubai Office reviews classification

Dataset Classification Approved

Smart Dubai and Department review and agree on final classification

Source: neXgen analysis  Confidential