

# **National Data Governance Policies**

Version 1 - 5/5/2020



# Data Classification Policy



# 1. Data Classification Policy

### 1.1 Scope

The provisions of this Policy shall apply to all data received, produced, or managed by public entities regardless of its source, form, or nature. This shall include paper records, meetings, communications through social media and applications, emails, information stored on electronic media, audio or video cassettes, maps, photographs, handwritten documents, or any other form of recorded information.

### 1.2 Main Principles for Data Classification

#### **Principle 1: Open by Default**

Data shall primarily be accessible (in the development sector) unless its nature or sensitivity requires higher levels of classification and protection, and top secret (in the political and security sectors) unless its nature or sensitivity requires lower levels of classification and protection.

# **Principle 2: Necessity and Proportionality**

Data shall be classified into levels based on its nature, sensitivity and impact, taking into consideration balancing its value against its confidentiality level.

## **Principle 3: Timely Classification**

Data shall be classified upon its creation or upon being received from other entities; said classification should be timebound.

# **Principle 4: Highest Level of Protection**

If information includes an integrated dataset with different classification levels, the highest classification level shall be approved.



# **Principle 5: Segregation of Duties**

The duties and responsibilities of workers – vis-à-vis data classification, access, disclosure, use, modification, or destruction – shall be segregated to prevent any overlap of powers and avoid dispersal of responsibilities.



#### **Principle 6: Need to Know**

Data access and use shall be made pursuant to the Need-to-Know principle and for the least possible number of people.

#### **Principle 7: Least Privilege**

The privileges of personnel members shall be limited to minimal access required to perform the tasks and responsibilities assigned to them.

#### **1.3 Data Classification Levels**

Table 1 herebelow outlines the master data classification levels, as compatible with the relevant impact level, along with guiding examples for each level.

Classification Level	Impact Level	Description	Examples
Top Secret	High	Data shall be classified as "Top Secret" if unauthorized access to or disclosure of such data or its content has an exceptionally serious and irreparable effect on the following:  - National interests, including violations of conventions and treaties, adverse damage to the reputation of the Kingdom, diplomatic relations and political	- Information on the encryption keys and mechanisms used for national infrastructure; - Information on terrorism crimes and plans threating national security; - Information on weapons and ammunitions or strategic military locations or any source of defensive or offensive force - Information on the movements of armed forces



		affiliations, or to the	or other military forces, or
		operational efficiency of	VIPs
		the security or military	- Information that affects the
		operations, national	State's sovereignty
		economy, national	
		infrastructure or	
		government functions;	
		- The functionality and	
		performance of public	
		entities, causing damage	
		to the national interest;	
		- The health and safety of	
		individuals at a massive	
		scale, especially senior	
		officials;	
		- The environmental or	
		natural resources.	
		Data shall be classified	Information on logistics
		as "Secret" if	- Information on logistics
		unauthorized access to	storage or economic
		or disclosure of such	storages; - Information on vital
		data or its content has a	
Secret	Medium	serious effect on the	installations; - Memorandums of
Secret	iviedium		
		following:	Understanding with
		- National interests such	international companies to
		as partial damage to the	establish commercial or
		reputation of the	strategic economic interests
		Kingdom, diplomatic	in the Kingdom;
	I.	ı	



relations, operational efficiency of the security or military operations, national economy, national infrastructure or government functions; - Financial loss for organizations, leading to bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such  - Information related to bilateral agreements and diplomatic Memorandums of Understanding between the Kingdom and other countries.  - Countries.  - Information related to bilateral agreements and diplomatic Memorandums of Understanding between the Kingdom and other countries.  - Information that of individuals; - Information that damages the reputation of a public figure; - Detailed statements of individual transactions;				
or military operations, national economy, national economy, national infrastructure or government functions; - Financial loss for organizations, leading to bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Pata shall be classified as "Restricted" if unauthorized access to or disclosure of such  Restricted  Low  diplomatic Memorandums of Understanding between the Kingdom and other countries.  Understanding between the Kingdom and other countries.			relations, operational	- Information related to
national economy, national infrastructure or government functions; - Financial loss for organizations, leading to bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such - Information that damages the reputation of a public figure; - Detailed statements of			efficiency of the security	bilateral agreements and
national infrastructure or government functions; - Financial loss for organizations, leading to bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Pata shall be classified as "Restricted" if unauthorized access to or disclosure of such  Pata statements of  Kingdom and other countries.  Kingdom and other countries.  Kingdom and other countries.			or military operations,	diplomatic Memorandums of
government functions; - Financial loss for organizations, leading to bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such - Information that damages the reputation of a public figure; - Detailed statements of			national economy,	Understanding between the
- Financial loss for organizations, leading to bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such - Information that damages the reputation of a public figure; - Detailed statements of			national infrastructure or	Kingdom and other
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bankruptcy or to inability of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such  - Information that damages the reputation of a public figure; - Detailed statements of			- Financial loss for	
of the entities to perform their duties or major loss for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such  or lifermation that damages the reputation of a public figure; - Detailed statements of			organizations, leading to	
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for competitive abilities or a combination thereof; - Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such  - Information that damages the reputation of a public figure; - Detailed statements of			of the entities to perform	
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- Significant harm or injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if the reputation of a public unauthorized access to or disclosure of such - Detailed statements of			for competitive abilities	
injury to the life of individuals; - Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if unauthorized access to or disclosure of such - Information that damages the reputation of a public figure; - Detailed statements of			or a combination thereof;	
individuals;  - Long-term damage to the environmental or natural resources;  - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if the reputation of a public figure; or disclosure of such - Detailed statements of			- Significant harm or	
- Long-term damage to the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if the reputation of a public unauthorized access to or disclosure of such  - Information that damages the reputation of a public figure; - Detailed statements of			injury to the life of	
the environmental or natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if the reputation of a public unauthorized access to or disclosure of such  the reputation of a public figure; - Detailed statements of			individuals;	
natural resources; - Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if the reputation of a public unauthorized access to or disclosure of such  - Information that damages the reputation of a public figure; - Detailed statements of			- Long-term damage to	
- Investigation of major cases, as defined by law, such as terrorism funding.  Data shall be classified as "Restricted" if the reputation of a public unauthorized access to figure; or disclosure of such - Detailed statements of			the environmental or	
cases, as defined by law, such as terrorism funding.  Data shall be classified - Information that damages as "Restricted" if the reputation of a public unauthorized access to or disclosure of such - Detailed statements of			natural resources;	
such as terrorism funding.  Data shall be classified - Information that damages as "Restricted" if the reputation of a public unauthorized access to figure; or disclosure of such - Detailed statements of			- Investigation of major	
Data shall be classified - Information that damages as "Restricted" if the reputation of a public unauthorized access to figure; or disclosure of such - Detailed statements of			cases, as defined by law,	
Data shall be classified - Information that damages as "Restricted" if the reputation of a public unauthorized access to figure; or disclosure of such - Detailed statements of			such as terrorism	
as "Restricted" if the reputation of a public unauthorized access to figure; or disclosure of such - Detailed statements of			funding.	
as "Restricted" if the reputation of a public unauthorized access to figure; or disclosure of such - Detailed statements of			Data shall be classified	- Information that damages
Restricted Low unauthorized access to figure; or disclosure of such - Detailed statements of				
or disclosure of such - Detailed statements of	Restricted	Low		
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data or its content causes:

- Limited negative effect on the functioning of public entities or economic activities in the Kingdom or on a particular individual's business:
- Limited damage to any entity's assets and limited loss to its financial and competitive status;
- Limited, short-term
   damage to environmental
   or natural resources.

- Results of practical
   research and studies before
   publication thereof;
- Information related to products under manufacturing, which may damage fair competition;
- Information related to sensitive administrative appointments and decisions;
- Information on an individual's medical file;
- Personally Identifiable
  Information (PII) such as
  name, address, National
  Identification Number,
  phone numbers, bank
  account and license
  numbers, and biometric
  identifiers;
- Information on employee salaries:
- Documents such as tactical level plans, marketing programs prior to public release and technology innovation plans;
- Supplier contracts and quotations;



			<ul> <li>Requests for proposals;</li> <li>New product specifications prior to its public release;</li> <li>Design and implementation details of security systems (firewalls, access control, network diagrams, etc.);</li> <li>Internal policies and procedures of entities;</li> <li>Internal</li> <li>Communications/Memos;</li> <li>Internal phone lists and email lists of some entities.</li> </ul>
Public	None	Data shall be classified as "Public" if unauthorized access to or disclosure of such data or its content has none of the abovementioned impacts, particularly effects on: - National Interest; - Activities of entities; - Interests of individuals; - Environmental resources.	<ul> <li>- Publicly released national strategic trends;</li> <li>- National statistics on population, environment, and businesses by industry, and others;</li> <li>- Public development and economic studies;</li> <li>- Governmental procedures and policies;</li> <li>- Information on public services provided to citizens by the government;</li> <li>- Contact persons at organizations;</li> </ul>



	- Advertisement for job
	postings;
	- Public announcements;
	- Press releases;
	- Publicly released financial
	results;
	- (Public) product
	presentations;
	- Information on public
	relations;
	- Any information that is
	publicly available on the
	websites of any
	organization;
	- Advertisements.

#### **Table 1: Data Classification Levels**

Data classified as "Restricted" can be further classified into one of the following sub-levels based on impact level as follows:

- Restricted Category (A): if the impact is at the scale of an entire sector or across a general economic activity;
- Restricted Category (B): if the impact cuts across the activities of multiple entities or the interests of a group of individuals;
- Restricted Category (C): if the impact relates to the activity of a single entity or the interests of a specific individual.

The following table illustrates and specifies the appropriate classification level that would enable entities to assess the impact level of



unauthorized access or disclosure of the data or its content (for more information on the impact assessment process, the "Data Classification Process" section provides further details).

Every entity should – on its own – conduct the impact assessment of unauthorized access or disclosure, and the list below is considered non-exhaustive.

Main Impact Category	National Interest			
Impact Sub-Category	Kingdom's Reputation	on		
Considerations	Would the information	on be subject to nationa	l or international	
	media interest? Wou	ıld it give a negative imp	pression?	
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Reputation is	Reputation is	Reputation is not	No impact on vital	
immensely affected.	affected to some affected. national interests.			
	extent.			

Main Impact Category	National Interest			
Impact Sub-Category	Diplomatic Relationsh	nips		
Considerations	Would the information	n pose any risk to the re	elationship with	
	friendly countries? We	ould it raise internationa	al tension? Could it	
	lead to protests or sa	nctions from other cour	ntries?	
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Diplomatic	Diplomatic	No effect on the	No impact on vital	
relationships and	relationships are	diplomatic	national interests.	
political affiliations	compromised and	relationships or very		
are broken, and/or	will be negatively	minimal effect in the		
conventions and	affected in the long-	short-term		
	term			



treaties terms are		
compromised.		

Main Impact Category	National Interest			
Impact Sub-Category	National Security/Pub	olic Order		
Considerations	Would this informatio	n, if released, help with	the conduct or	
	commitment of terror	ist or serious crimes? W	ould it create an	
	alarm to the public?			
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
The operational	Long-term effect on	A negligible impact	No impact on vital	
efficiency of	the ability and	on the operational	national interests.	
maintaining public	efficiency of	efficiency of security		
order and national	security and military	operations at the		
security or the	forces to investigate	regional or local		
intelligence	or prosecute	level, and impeding		
operations of military	serious organized	the detection of		
and security forces	crimes causing	minor crimes in the		
significantly affected	internal operational	short-term.		
and compromised.	instability			

Main Impact Category	National Interest			
Impact Sub-Category	National Economy			
Considerations	Would this informatio	n, if disclosed, cause ed	conomic losses at the	
	national level?			
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Long-term effect on	Long-term effect on	Minimal effect on the	No impact on vital	
the national economy,	the national	national economy,	national interests.	



with an unrecoverable	economy, with a	with a quick	
decrease in GDP,	recoverable	recoverable	
capital market rates,	decrease in GDP,	decrease in GDP,	
employment rate,	employment rate,	employment rate,	
purchasing power	capital market rates	capital market rates	
and/or other relevant	and/or purchasing	and/or purchasing	
indicators. All the	power, negatively	power, negatively	
country sectors are	affecting one or	affecting not more	
affected	more sectors.	than one sector.	

Main Impact Category	National Interest			
Impact Sub-Category	National Infrastructure			
Considerations	Would access to such	n information cause any	interruption to the	
	critical national infrast	tructures (i.e. energy, tra	ansport, health)? In	
	case of a cyber-attac	k, would the critical serv	vices of the Kingdom	
	be still available?			
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Failure and long	Short-term failure	Short-term effect on	No impact on vital	
interruption to the	and interruption to	the security and	national interests.	
security and	the security and	operations of		
operations of critical	operations of critical	local/regional		
national	national	infrastructures.		
infrastructures;	infrastructures; one			
several sectors are	or more sectors are			
affected, and normal	affected.			
life is interrupted.				

Main Impact Category	National Interest	
Impact Sub-Category	Functions of Government Entities	



Considerations	Would the release of the information limit the ability of government			
	entities to carry out their daily operations and functions?			
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Inability of all	Inability of one or	Inability of one or	No impact on vital	
government entities to	more government	more government	national interests.	
conduct their	entities to deliver	entities to deliver		
functions and daily	one or more of their	one or more of their		
operations for a long	functions for a short	non-core function(s)		
period of time.	period of time. for a short period of			
		time.		

Main Impact Category	Entity Activities			
Impact Sub-Category	Profits of Private Entities			
Considerations	Would disclosure of t	his information lead to f	inancial loss or	
	bankruptcy of private	entities operating publi	c facilities? For	
	example, the possibil	ity of fraud, illegal trans	fers of funds, illegal	
	appropriation of assets.			
Level of Impact	Level of Impact			
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Significant impact on	Entities incurring	Non-serious damage	No impact on entity	
the private entities,	heavy financial	in the form of limited	activities.	
causing damage to	losses, possibly	financial loss to an		
the vital national	leading to	entity or any of its		
interests.	bankruptcy.	assets.		

Main Impact Category	Entity Activities
Impact Sub-Category	Functions of Private Entities
Considerations	Would the release of this information cause any damage to private
	entities operating public facilities? Would it cause their loss of



	their leading role or of any of their assets? Would it lead to terminating a significant number of employees? Would it affect the competitiveness of the private entity?			
Level of Impact				
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
Significant impact on	Inability of the entity			
the private entities,	to perform its core	to perform one of its	activities.	
causing damage to	functions, and core functions, and			
the vital national	significant loss of its limited loss of its			
interests.	competitiveness. competitiveness.			

Main Impact Category	Individuals			
Impact Sub-Category	Health/Safety of Individuals			
Considerations	Would release of this	information lead to disc	closure of the names	
	or locations of individuals? (e.g. names and locations of			
	undercover agents, people under special protection orders)			
Level of Impact	Level of Impact			
Top Secret	Secret	Restricted	Public	
High	Medium	Low	None	
General or massive	Significant harm or	Minor injury with no	No impact on	
loss of life; loss of life	injury impacting the	risk to the life or	individuals.	
of an individual or	life of an individual.	health of an		
group.		individual.		

Main Impact Category	Individuals		
Impact Sub-Category	Privacy		
Considerations	Would release of this information lead to violation of the privacy of		
	individuals? Would it infringe any intellectual property rights?		
Level of Impact			
Top Secret	Secret	Restricted	Public



High	Medium	Low	None
Disclosure of the	Disclosure of the	Disclosure of the	No impact on
personal information	personal	personal information	individuals.
of a VIP, affecting the	information of a VIP	of an individual.	
national interest.			

Main Impact Category	Environment		
Impact Sub-Category	Environmental Resources		
Considerations	Would this information be used to develop any service/product		
	that could potentially destroy environmental or natural resources		
	of the country?		
Level of Impact			
Top Secret	Secret	Restricted	Public
High	Medium	Low	None
Irreparable	Long-term effect on	Short-term or limited	No impact on the
catastrophic effect on	the environment or	effect on the	environment.
the environment.	natural resources.	environment or	
		natural resources.	

**Table 2: Categories and Levels of Data Classification Impact Assessment** 

#### 1.4 Data Classification Controls

Based on the data classification levels, entities shall identify and implement appropriate data protection controls to ensure secure handling, processing, sharing and disposal of data. If data is not classified at the time of creation or receipt as per the classification criteria, it shall be treated as "Restricted" until correctly classified.

The data that was not classified at the time of issuing these Policies shall be classified within a specific period of time according to an action plan to be prepared by the entity and approved by its head. Below are some



examples of the controls that can be used when classifying data (refer to the data protection controls and guidelines published by the National Cybersecurity Authority).

Data Classification controls include but are not limited to the following:

#### **Protective Marking**

 Protective marking shall be applied to paper and electronic documents (including emails) as per each classification level.

#### Access

- Access to data logical and physical shall be granted based on the principles of "Least Privilege" and "Need to Know."
- Access shall be denied immediately upon the expiration or termination of the professional service of entity employees.

### Usage

Classified data shall be used as per the requirements of the classification levels. For example, "Top Secret" data shall only be used within specified locations whether physical (e.g. offices) or virtual (e.g. using cryptography or special applications).

### **Storage**

- Data classified as "Top Secret," "Secret" and "Restricted," as well as mobile devices that process or store such data, shall not be left unattended.
- Unattended "Top Secret," "Secret" and "Restricted" data shall be protected while being physically or electronically stored, using any of



the encryption mechanisms approved by the National Cybersecurity Authority.

#### **Data Sharing**

- Entities shall decide on the appropriate physical and digital means of secure data sharing that ensure minimization of potential risks and compliance with data sharing regulations.
- Entities shall agree on the data sharing mechanism, whether they will utilize existing sharing mediums, e.g. Government Service Bus, National Information Center Network, or Secured Government Network, or will set up a new direct connection, removable storage media, Wi-Fi, remote access, VPN, etc.

#### **Data Retention**

- A schedule defining the retention period of all data shall be prepared.
- The retention period shall be defined based on the applicable business, contractual, regulatory and legal requirements.
- The retention schedule shall be reviewed periodically/annually or when there are changes in the relevant requirements.

# **Disposal of Data**

- All data shall be securely disposed of according to the data retention schedule upon the approval of the relevant Business Data Executive.
- Data which is classified as "Top Secret" or "Secret" and which is electronically controlled shall be disposed of by using the latest electronic media disposal methods.
- All paper-based data shall be disposed of using a cross-cut shredder.
- A detailed log of all disposed of data shall be maintained.



#### **Archiving**

- Data shall be archived in secure storage locations, as recommended by the relevant Business Data Executive.
- Archived data shall be backed up.
- Archived data classified as "Top Secret" and "Secret" shall be protected using any of the encryption mechanisms approved by the National Cybersecurity Authority.
- A detailed list of users authorized to access archived data shall be prepared and documented.

#### **Declassification**

- Data shall be declassified or downgraded upon the expiration of the classification period, or when protection is no longer required at the original classification level.
- In case data has been wrongly classified, a data user shall notify the Business Data Executive to determine the extent to which it is required to re-classify such data appropriately.
- Data declassification triggers shall be set when the initial classification levels are first applied and shall be captured in the data register. These triggers may include:
  - o A specified period after data creation or receipt (e.g. two years after creation);
  - o A specified period after taking the last action on data (e.g. six months from the date of the last use);
  - o After the lapse of a specific date (e.g. to be reviewed on 1 January 2021);



o After particular circumstances or events that have a direct impact on the data (e.g. a change of strategic priorities or a change of the employees of government entities).

 Declassification or downgrading of data, beyond the clear declassification triggers, shall require a sound understanding of both the sensitive data content and its context.

#### 1.5 Data Classification Process

#### **Step 1: Identify all data of the entity**

The first step to be taken by an entity is to prepare an inventory of all the data owned by such entity.

#### **Step 2: Appoint Responsible of Performing data classification**

Upon completion of a data inventory, the Entity shall assign the responsibility for performing the classification to a particular person, usually the Business Data Executive, who is an employee of the entity's office and who best understands the data and its value. This person shall be responsible for making the initial classification. As there could be several Business Data Executives within the Entity, there could be more than one classifier.

### **Step 3: Conduct impact assessment process**

The Business Data Executive shall follow the steps required for an assessment of the potential impact arising from:

- The disclosure of or unauthorized access to such data;
- Amendment and/or destruction of such data:
- Lack of access to such data in a timely manner.

The impact assessment process shall be initiated with the application of the 'Open by Default' principle (in the Development sector) unless its nature



or sensitivity requires higher levels of classification and protection; and the Top-Secret classification (in the political and security sectors) unless its nature or sensitivity requires lower levels of classification.

#### **Step 3.a: Identify the impact category**

The first stage of the impact assessment process is to identify the main and subcategory of the potential impact in any of the following main categories:

- National interest
- Entity activities
- Health or safety of individuals
- Environmental resources.

#### **Step 3.b: Identify the impact level**

The second stage implies that the Business Data Executive must assign to each potential impact a level of impact depending on the following:

- The impact duration and the difficulty to control the damage;
- The time to recover and repair the damage after its occurrence; and
- The size of the impact (on a national or regional level, several entities, single entity, multiple individuals, etc.)

These parameters define the four levels of impact:

- High Impact: Access to or disclosure of such data shall cause extremely grave or serious long-term damages that cannot be recovered or rectified.
- Medium Impact: Access to or disclosure of such data shall cause grave or serious long-term damages that are difficult to control.



- Low Impact: Access to or disclosure of such data shall cause limited or intermittent short-term damages that can be controlled.
- No Impact: Access to or disclosure of such data is unlikely to cause any long- or short-term damage.

All potential risks identified throughout the impact assessment process shall be specific and evidence-based, in an attempt to limit the subjectivity of the person classifying the data.

Based on the identified impacts and their levels, the Business Data Executive shall determine the data classification level:

- High Impact: data shall be classified as "Top Secret."
- Medium Impact: data shall be classified as "Secret"
- Low Impact: further assessments need to be conducted (please refer to Steps 4 and 5)
- No Impact: data shall be classified as "Public"

A detailed description of the key considerations for each impact category and level is outlined in Table 2 "Data Classification Impact Assessment Categories and Levels".

Steps 4 and 5 must be taken into consideration whenever the impact level identified is Low.

Go to step 6 if data has been classified as "Top Secret", "Secret" or "Public."



#### **Step 4: Identify relevant laws and regulations (only if impact level is Low)**

If the impact level identified is Low, additional assessments must be performed in order to maximize the classification level of the data classified as "Public."

In this regard, the Business Data Executive must study whether disclosure of such data would conflict with the Kingdom's laws, including, but not limited to, the Anti-Cybercrime Law and the E-Commerce Law. If such disclosure of data proves to be against the laws and regulations, data shall then be classified as "Restricted;" otherwise the Business Data Executive must proceed to carry out Step 5.

# Step 5: Balance between the benefits of disclosure and negative impacts (only if the answer to Step 4 is "NO")

After confirming a low impact level and ensuring that the data disclosure shall not imply any breach of any existing law, an assessment of the potential benefits of this disclosure must be conducted to make sure whether or not those benefits would outweigh the negative impacts. Potential benefits include data use for the development of new value-added services, improvement of the transparency of government operations, or greater involvement of the citizens with the government.

- If benefits are greater than negative impacts, data shall be classified as "Public"
- If benefits are less than negative impacts, data shall be classified as "Restricted."

# Step 6: Review classification level

The data classification reviewer – an employee of the entity's data management office – shall check all classified data to ensure that the



classification level assigned by the Business Data Executive is the most appropriate one. This classification level shall be reviewed within one month of the initial classification.

#### **Step 7: Apply appropriate controls**

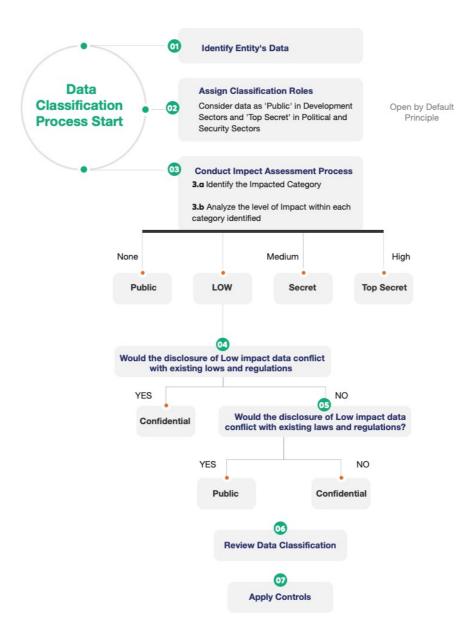
The last step of the data classification process is to ensure that all data is protected as per its classification level by applying the relevant controls (refer to the section entitled "Data Classification Controls").

The classification process shall be assumed to be concluded when all the data owned by the entity is classified, its classification levels are verified, and the relevant controls are applied.

After data classification is complete, entities can share such data with other entities or make it available or publish it as open data in case the classification level is "Public."

Figure 2 below illustrates the steps needed to perform data classification.





# 1.6 Roles and Responsibilities within the Entity

All entities shall designate persons to be responsible for performing the obligations assigned to each of the job roles associated with the data classification process and the conditions for its protection as outlined below:



**Business Data Executive**: A person responsible for the data being collected and maintained by the entity, usually a member of senior management. The Business Data Executive shall address the following:

- Data classification: Classify all data collected by the entity or its affiliates;
- Data compilation: Ensure that data compiled from multiple sources is classified at the highest level of individual classification;
- Data classification coordination: Ensure that data shared between departments or entities is consistently classified and protected.
- Data classification compliance (in coordination with Business Data
   Stewards): Ensure that data is protected as per specific controls.

Data Classification Reviewer: Usually a member of senior management, a Data Classification Reviewer is responsible for reviewing and approving the data classification levels as defined by the Business Data Executive,

Business Data Steward: A Business Data Steward is usually a member of the IT and/or Information Security departments. He is responsible for protecting the data by applying the approved controls as per the provisions of the section entitled "Data Classification Controls." He also maintains and supports the systems, databases, and servers that store data. The duties of a Business Data Steward can be outlined as follows:

- Access control: Ensure that proper access controls are implemented, monitored and reviewed in accordance with the Data Classification levels designated by the Business Data Executive.
- Audit reports: Submit an annual report to Data Administrators
   addressing availability, integrity and confidentiality of classified data.
- Data backups: Perform regular backups of data.



- Data validation: Validate data integrity on a periodical basis.
- **Data restoration:** Restore data from backup media.
- Monitoring activity: Monitor and record data activities, including information on any person accessing such data.
- Data Classification compliance (in coordination with Data
   Administrators): Ensure that the entity's data is classified and secured following the process described in these Policies and in accordance with the defined controls.

**Data User:** An employee who manages, accesses, uses, or updates data to complete a task authorized by the Business Data Executive. A Data user shall benefit from the data in line with the set purposes and in compliance with these Policies and all policies related to data usage across the Kingdom. The head of the entity shall assign the above roles to qualified people within the entity as he deems appropriate.

