THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE, PUBLIC SERVICE MANAGEMENT AND GOOD GOVERNANCE
e-GOVERNMENT AUTHORITY

Document Title

Criteria for Data Sharing and Exchange through Government Enterprise Service Bus (GovESB)

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eGA/EXT/ITA/003

APPROVAL	Name	Job Title/ Role	Signature	Date
Approved by	Dr. Mussa M. Kissaka	Board Chairperson	*Mluosali*	01/07/22

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PREFACE

Public Institutions with respect to their business processes, generate data through leveraging ICT systems that help them during their daily operations. The data generated is a very valuable resource that require proper management for the purpose of increasing institution efficiency. The e-Government Act, 2019 and its General Regulations, 2020 emphasizes for a need to create primary data once and share it among Public Institutions that require them for effective e-services delivery. Therefore, it is important for Public Institutions to integrate their applications such that real-time seamless data exchange across the government is enabled.

In context of Section 48(2) of the e-Government Act 2019 as well as Section 59(1) of the e-Government General Regulations 2020 required the Authority to establish and manage a data sharing and exchange platform i.e Government Enterprise Service Bus-GOVESB to facilitate efficient data sharing and exchange in the Public Service.

This document establishes criteria to be met by every public institution for smooth data exchange and sharing through GOVESB.

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Dr. Mussa M. Kissaka
BOARD CHAIRPERSON

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1. INTRODUCTION

1.1 Overview

e-Government Authority "e-GA" is a public institution established by e-Government Act No.10 of 2019 with mandate to coordinate, oversee, and promote e-Government initiatives and enforce e-Government related policies, laws, regulations, standards and guidelines to Public Institutions.

1.2 Rationale

To provide criteria for data sharing and exchange through GOVESB as the platform with an utmost importance to create an integrated Government connecting Public Institution's applications, making services accessible to the citizens and ensure the efficiency, transparency and reliability of service delivery.

1.3 Purpose

To provide criteria for data sharing and exchange through the Government Enterprise Service Bus (GOVESB).

1.4 Scope

This document will be used by all Public Institutions during sharing and exchange of data through Government Enterprise Service Bus (GovESB).

2. Criteria for Data Sharing and Exchange through the Government Enterprise service Bus (GOVESB)

2.1. General Criteria

The following are the general considerations to be adhered: -

i.   An information system either sharing or exchanging data must be hosted in a government approved hosting environment as per *Data Center Standards for Public Institutions (eGA/EXT/IRA/003)* as well as registered onto the Government ICT Services Portal (GISP).

ii. Public Institution should adhere to the "Electronic Data Sharing and Exchange Guidelines" **(eGA/EXT/ITA/002)** as well as e-Government Integration Architecture – Standards and Technical Guidelines (**eGA/EXT/ITA/001**).

iii. Data fields exposed for data sharing must be in accordance to "Institutional Data Dictionary Technical Standards and Guidelines" **(eGA/EXT/IFA/002).**

iv. An information system either sharing or exchanging data must undergo security assessment testing prior to commencement of data sharing and/or exchange through ESB. This should go concurrent with performing annual ICT security assessment of the application to ascertain its security posture.

v.   Data exchange must be conducted through GovNET or IPSec network.

vi. In case a consumer information system was not available in the event that a data producer had pushed data that had changed, for the purposes of compliance with e-Government Regulations, 2020 (55(b)), the consumer information system soonest on becoming available, must poll GOVESB for details of the data that changed in that specific time interval. GOVESB keeps only metadata of each data from data producer.

vii. GOVESB must have a testing environment on which ALL data sharing and information exchange must be performed prior to deployment into production.

viii. Public institution must have a testing environment on which ALL data sharing and information exchange must be tested prior to deployment into production.

ix. Public institutions must ensure that only relevant users are registered in GOVESB and that are assigned appropriate roles and permissions accordingly.

x. An information system sharing data with other information systems must have a disaster recovery (DR) site which must also be registered in GOVESB.

xi. An information system along with the services it exposes to other information systems must be registered in GOVESB.

xii. With respect to data sharing between public institution and/or private entities/researcher, a valid data sharing agreement has to be in place and must be uploaded to GovESB for review by eGA prior to enabling the process.

xiii. Once e-GA enables data sharing and exchange as per data sharing and exchange agreement, neither of the two parties can make changes until the agreement is reviewed and the entire process is adhered to.

xiv. In case a data consumer/data producer fails to adhere to data sharing and exchange agreement or there is a dispute between the two parties which leads to termination of the agreement, the two parties will be required to notify e-GA in writing to affect the termination.

xv. Public Institution must adopt the Service Oriented Architecture (SOA) Reference Architecture for new ICT initiatives.

xvi.   Public Institution will be registered in the Government Enterprise Service Bus Portal either as a service provider, service consumer or both.

xvii.   Data confidentiality, integrity and availability should be adhered during exchange and sharing data through Government Enterprise Service Bus.

xviii.   All interactions between service consumers (Public institutions, citizen and businesses) and service providers (Public Institutions) should pass via the Government Enterprise Service Bus Portal.

2.2.   Service Provider

The following criteria are to be adhered by the service provider: -

i.   Register all applications which will require to exchange and sharing data through the Government Enterprise Service Bus Portal (GOVESB).

ii.   Perform service registration for each application in the ESB service registry which will be provided to the service consumer upon request through the Government Enterprise Service Bus Portal (GOVESB).

iii.   View, review and approve subscription requests submitted by the service consumers.

iv.   Perform update and changes to the data it provides to the service consumer.

v.   Register call back URLs for each service.

vi.   Service provider should add data field details of each service.

vii.   Assign services from registered applications to service consumers which have requested data services including consumption time limitation.

2.3. Service Consumer

The service consumer can: -

i.   Request data services from a data custodian.

ii. Clearly identify which data is needed.

iii. Subscribe to available subscriptions of data.

2.4. Integration

i.   All Public Institutions must comply with e-Government Integration Architecture – Standards and Technical Guidelines (**eGA/EXT/ITA/001**).

2.5. Security

i.   Data security measures should be followed in line with e-Government Security Architecture – Standards and Technical Guidelines (**eGA/EXT/ISA/001**) and e-Government Information Architectures – Standards and Technical Guidelines (**eGA/EXT/IFA/001**).

3.   IMPLEMENTATION, REVIEW AND ENFORCEMENT

This document shall:

3.1   Effective upon being signed by the Board Chairperson on its first page.

3.2   Subjected to review at least once every three years or whenever necessary changes are needed.

3.3   Consistently complied with, any exceptions to its application must duly be authorized by the Board Chairperson.

4. GLOSSARY AND ACRONYMS

4.1. Glossary

Data Sharing - Making data available to another organization under agreed conditions.

Data Exchange - A part of data sharing involving fixed, recurring transactions between parties, such as the regular exchange of data among Public Institutions. These exchanges are implemented with data exchange services.

Data Sharing Agreement- a formal arrangement between a data custodian and a data requestor that details conditions under which data is shared and used.

Data Custodian/ Service Provider – Public institution which offers electronic service to a service consumer. The agency or organization that collects or generates data for any purpose and is accountable and responsible for the governance of that data.

Data Requestor/ Service Consumer- Is an entity/institution/organization that requests data.

Data- Any information represented in electronic form. Information and data are used interchangeably

4.2. Acronyms

API	Application Programming Interface
e-GA	e-Government Authority
GOVESB	Government Enterprise Service Bus
GovNET	Government Network

5. RELATED DOCUMENTS

5.1. e-Government Integration Architecture –Standards and Technical guidelines (eGA/EXT/ITA/001).

5.2. e-Government Guideline (PO-PSM, 2017).

5.3. e-Government Act No 10, of 2019.

5.4. e-Government General Regulations of 2020.

5.5. e-Government Information Architecture – Standards and Technical Guidelines (eGA/EXT/IFA/001).

5.6. e-Government Security Architecture – Standards and Technical Guidelines (eGA/EXT/ISA/001).

5.7. Electronic Data Sharing Guidelines.

5.8. Institutional Data Dictionary Standards and Guidelines.

6. DOCUMENT CONTROL

Version	Name	Comment	Date
Ver. 1.0	e-GA	Creation of Document	July 2022