



THE UNITED REPUBLIC OF TANZANIA

PRESIDENT'S OFFICE - PUBLIC SERVICE MANAGEMENT

e-GOVERNMENT AGENCY

Document Title

Quality Assurance Compliance Guidelines for e-Government Applications

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1. OVERVIEW

1.1. Introduction

e-Government Agency (eGA) is a semi-autonomous institution established under the Executive Agencies Act, Cap. 245. eGA is charged with the mandate of providing coordination, oversight and promotion of e-Government initiatives and enforcement of e-Government standards to Public Institutions. In that regard, the Agency prepares e-Government Standards and Guidelines to assist Public Institutions in implementing e-Government initiatives in a quality manner.

e-Government Applications Quality Assurance Compliance Guidelines define ways that Government Institutions or auditors/assessors will use to verify adherence of e-Government applications to quality requirements.

1.2. Purpose

Quality Assurance Compliance guidelines aims at enabling Public Institutions to review quality of their applications, auditors to assess compliance to quality assurance requirements as well as assist quality assurance officers assist management in understanding the quality status of their applications.

1.3. Rationale

Public Institutions have been implementing e-Government applications that sometimes fail to achieve the desired objectives or fail to meet evolving requirement of Institution and their users. In light of this the Government requires a professional way of ensuring that acquisition, development, operation and maintenance is done according to quality requirements. This document will aid in ensuring that those operations are in compliance with quality assurance requirements.

1.4. Scope

This document will be applicable to all Public Institutions undertaking acquisition, development, operation and maintenance of e-Government Applications.

2. COMPLIANCE GUIDELINES

2.1. Applications Quality Requirements

- 2.1.1. Public Institutions are required to comply with quality requirements described in e-Government Application Architecture (eGA/EXT/APA/001), particularly the ones available in the following standards and guidelines;
 - Standards for Development, Acquisition, Operations and Maintenance of e-Government Applications (eGA/EXT/APA/005)
 - ii. Guidelines for Development, Acquisition, Operations and Maintenance of e-Government Applications (eGA/EXT/APA/006)
- 2.1.2. Also, Public Institutions will be required to comply with Government directives on applications whenever they are issued.

2.2. e-Government Applications Compliance Guidelines

- 2.2.1. These guidelines will be used for self-assessment by Public Institutions or for independent assessments by auditors or quality assessors.
- 2.2.2. Knowledge of application acquisition, development, operations and maintenance is a prerequisite in using this compliance guide.
- 2.2.3. The assessor or auditor will produce quality assurance report with the following contents;
 - i. Executive summary;
 - ii. Scope i.e. assessed Institution and applications;
 - iii. Findings; and
 - iv. Recommendations.
- 2.2.4. During application acquisition or development, all checklists on category 1 as General Checklist for Application Development and Acquisition of "Checklist for Acquisition and Development of e-Government

Applications" on **Appendix A** are required to be checked on YES for applications to meet quality requirements. The assessor will provide remarks and recommendations on areas of interest with N/A or NO to assist Public Institution improve the quality of the acquired/developed product.

- 2.2.5. Specifically for application acquisition, together with 2.2.4 above, the checklists on category 2 as Application Acquisition of "Checklist for Acquisition and Development of e-Government Applications" on Appendix A are required to be checked on YES for applications to meet quality requirements. The assessor will provide remarks and recommendations on areas with N/A and NO to assist Public Institution improve the quality of the acquired product.
- 2.2.6. Specifically for application development, together with 2.2.4 above, the checklists on category 3 as Application Development of "Checklist for Acquisition and Development of e-Government Applications" on Appendix A are required to be checked on YES for applications to meet quality requirements. The assessor will provide remarks and recommendations on areas with N/A and NO to assist Public Institution improve the quality of the acquired product.
- 2.2.7. During application operations and maintenance, assessment is done by using "Checklist for Operations and Maintenance of e-Government Applications" on Appendix B. Note that vendor operations are not permitted, finding this as a NO on item 1.2 of the checklist violates quality requirements and should have a permitted exception. Other areas need professional judgment in comparison to the related standards and guidelines i.e. Standards for Development, Acquisition, Operations and Maintenance of e-Government Applications and Guidelines for Development, Acquisition, Operations and Maintenance of e-Government Applications.

2.2.8. Public Institutions quality assessors or auditors will check compliance to quality requirements primarily using the checklists attached as appendix A and B on this document named "Checklist for Acquisition and Development of e-Government Applications" and "Checklist for Operations and Maintenance of e-Government Applications".

2.3. e-Government Application Quality Compliance Reviews

- 2.3.1. Self quality compliance reviews may be done by Institutions themselves or by using third part with capacity to assess e-Government applications quality requirements.
- 2.3.2. Self quality compliance reviews should be done before putting any e-Government Application into operation and copy of the reports should be submitted to e-Government coordinating Institution.
- 2.3.3. For critical applications which are in operations, self quality compliance reviews should be done annually and copy of reports be submitted to e-Government coordinating Institution.
- 2.3.4. Verification of self quality compliance review reports will be done randomly with regard to Government requirements by CAG, IAG, eGA or any other independent Public Institution(s).
- 2.3.5. The quality compliance reviews may be done at any stage of application acquisition, development, operations or maintenance.
- 2.3.6. The quality compliance reviews should be done per application; however reports may be combined and attached with each application checklists.
- 2.3.7. Any non-compliance to quality compliance requirements as may be identified by assessments should be reported explicitly in review reports with accompanying reasons and evidence if any.

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3. IMPLEMENTATION, REVIEW AND ENFORCEMENT

- 3.1. This document shall be effective upon being signed on its first page.
- 3.2. This document shall be subjected to review at least once every three years or whenever necessary changes are needed.
- 3.3. In case of any exceptions to these guidelines, authorization should be obtained from same authority which authorized this document or the owner of this document.

4. GLOSSARY AND ACRONYMS

4.1. Glossary

Application - Is a program or a group of programs designed for end users i.e. software and application software designed and developed/acquired for the Government of Tanzania in order to serve citizens better.

4.2. Acronyms

CAG Controller and Auditor General

eGA e-Government Agency

IAG Internal Auditor General

5. RELATED DOCUMENTS

- 5.1. eGovernment Guidelines (PO-PSM, 2017)
- 5.2. e-Government Application Architecture Technical Standards and Guidelines (eGA/EXT/APA/001)
- 5.3. Standards for Acquisition, Development and Maintenance of e-Government Applications (eGA/EXT/APA/005)
- 5.4. Guidelines for Acquisition, Development, Operations and Maintenance of e-Government Applications (eGA/EXT/APA/006)

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6. DOCUMENT CONTROL

Version	Name	Comment	Date
Ver. 1.0	eGA	Creation of Document	November 2018

APPENDICES

A. CHECKLIST FOR ACQUISITION AND DEVELOPMENT OF e-GOVERNMENT APPLICATIONS

General Checklist for Application Development and Acquisition					
	Question	Yes	No	N/A	Remarks
1.1.	Does the application				
	address business				
	requirements?				
1.2.	Did the requirements				
	originate from user				
	department?				
1.3.	Does the requirement				
	include security				
	requirements?				.8
1.4.	Was the internal ICT team				
	involved?				
1.5.	Was it planned in				
	Institution Strategic				
	Plan/ICT strategy/ICT				n
	Policy?				
1.6.	Is the necessary IT				
	infrastructure available to				
	support the application				
	from the Institution or				25
	government?				
1.7.	If it is an application				
	acquisition /development				
	project, has it been reviewed				
	by e-Government				
	responsible Institution?				
1.8.	Is knowledge transfer part				
	of application acquisition				
	/development?				
1.9.	Was the requirement				
	gathered reviewed and an				
	SRS produced?				
1.10.	Was the requirement				
	document signed off by user				
	department?				
1.11.	Was User Acceptance Test				
	performed and signed by				

	user department?	
2. Ap	plication Acquisition	
2.1		
	capacity to manage vendor?	
2.2	. Does the licensing scheme	
	meet user department	
	needs?	
2.3	. Has the Institution	
	employed ICT staff capable	
	of managing application	
	acquisition project?	
2.4	Did the application	
	acquisition follow	
	Government procurement	
	procedures?	
2.5	1 S OCCUPATION OF THE PROPERTY OF THE BOARD SERVICE OF THE STATE OF TH	
	the application	
	provided/planned?	
2.6	Has the contract negotiation	1
	been done by	
	knowledgeable/relevant	
	staff?	
2.7	300 Maria 100 V 10	
	responsibilities of both	
	parties (Public Institutions	
	and vendor) stated clearly?	
2.8	Was there an extensive	
	testing on test environment	
	before deployment of	
	application?	8
3. Ap	plication Development	
3.1		
	possess necessary skills	
	to develop the	
	application?	
3.2	l l	
	unavailable from the	
	Institution, are they	
	obtained from another	
	government Institution?	
3.3	3 , 1	
	application, was it	

	developed in phases?		i.
3.4.	Did each phase produce		
	a verifiable deliverable?		
3.5.	Was every phase		
	properly documented		
	including testing?		
3.6.	Has the application been		
	developed with the most		
	recent version of the		
	framework for the		
	chosen technology?		
3.7.	Does all application code		
	include sufficient		
	comments for support		
	personnel?		
3.8.	Did the application use		11
	approved		
	institution/government		
	software development		
	methodology?		

B. CHECKLIST FOR OPERATIONS AND MAINTENANCE OF e-GOVERNMENT APPLICATIONS

S/N:	Application Operations and Maintenance Quality Requirements	YES	NO	N/A	REMARKS
1. Inter	nal Operations				
1.1.	Is the application hosted in Tanzania by the Institution or Government Institution?				
1.2.	Is the application not operated by vendor?				
1.3.	Has the application been handed over to operations department?				
1.4.	Has it been assigned application administrator(s)?				
1.5.	Is capability (Knowledge and Skills) for application operations i.e. installation, configuration and day to day application operations and support available internally to one or more staff?				
1.6.	Are internal application administrators given application specific training annually and this is budgeted?				
1.7.	It there OLA with Institution user departments?				
1.8.	Is OLA compliance satisfactory?				
1.9.	Are privileged operations, events and incidents logged and auditable by Institution?				
1.10.	Are application logs audited regularly (i.e. monthly or less)?				
1.11.	Is ICT security handled internally?				
1.12.	Is there internal security operations capacity?				
1.13.	Has the application been tested for security in less than 12 months ago?				

S/N:	Application Operations and Maintenance Quality Requirements	YES	NO	N/A	REMARKS
1.14.	Was there no security improvement required?				
1.15.	Has the application security improvement been made?				
1.16.	Has the application passed the required application testing requirements?				
1.17.	Does the application meet user and operation requirements?				
1.18.	Are there no bugs/errors hindering Institution operations?				
1.19.	Does the application produce logs which are stored for the agreed/required period?				
1.20.	Are all application operations guided by documented process, procedures and guidelines?				
1.21.	Are procedural operations such as adding users documented/captured for future references?				
2. Inter	nal Maintenance				
2.1.	Has the business process been re- engineered/changed?				
2.2.	Does the Institution have more than one programmer for the specified applications?				
2.3.	Is the change management process and procedures available and documented?				
2.4.	Has the maintenance need been raised through formal requests or through existing plans?				
2.5.	For procured applications, has the vendor released upgrade/patch/fixes and they are available for				

S/N:	Application Operations and Maintenance Quality Requirements	YES	NO	N/A	REMARKS
	incorporation at no additional cost?				
2.6.	Is change management process being adhered to during application maintenance?				
2.7.	Has the changes, improvement, fixes been documented?				
2.8.	Do the tests done (application tests, security tests and related) after maintenance show that the application maintenance was successful?				
2.9.	Has the user department been satisfied with the maintenance done?				
3. Outs	ourced/Vendor Maintenance				
3.1.	Is there a license/contract for maintenance and still valid?				
3.2.	Is support/upgrades part of existing license/contract?				
3.3.	Does the vendor release upgrade/patch/fixes that are available for incorporation at no additional cost?				
3.4.	Does the vendor disclose what is new/changed before upgrading/patching your application?				
3.5.	Is there a room for testing or evidence of testing for the changed/maintained application?				
3.6.	Does the maintained application function as required?	,		3	