OVERVIEW OF KENYA’S CYBERSECURITY FRAMEWORK AND RELATED DRAFT KICA REGULATIONS, 2016

26th May 2016

Vincent Ngundi
Assistant Director, Cyber Security & E-Commerce
Overview of Kenya’s Cybersecurity Framework

Overview of Draft KICA Regulations 2016
OVERVIEW OF KENYA’S CYBERSECURITY FRAMEWORK
Global Cyber Threat Landscape

Cyber Threats are real and they cost billions every year...

- **2 Billion** identified malware samples in 2015
- Malware continues increasing/evolving by **1 million new samples per day**
- The **Android platform** holds the lion’s share with over **95% of mobile malwares**
- Over **130% increase** in total number of DDoS attacks
- Malicious activities involving exploit kits have **increased about 67%**
- A **single botnet (Nidol)** was responsible for 60% of all application layer attacks
- CryptoWall has assessed the revenue from a **single ransomware** to be some over **$300 million**.
- **50% of data breaches result of low level of analysis efforts** invested in incident management

Source: ENISA Threat Landscape Report 2015
National Cybersecurity Governance Framework

Policy, strategy, law & regulations….

Vision 2030

ICT Sector Policy

National Cyber Security Strategy

Kenya Information & Communications Act + Regulations

National KE-CIRT/CC
National Cybersecurity Governance Structure

National cybersecurity stakeholders....

National Security Council (NSC)  
(Chaired by the President)

National Security Advisory Committee (NSAC)  
(Chaired by the Head of Public Service & Chief of Staff)

National Cybersecurity Steering Committee (NCSC)  
(Chaired by the PS/MoICT)

- National KE-CIRT/CC  
  (Co-ordinated by CA)

- Threat Intelligence  
  (Co-ordinated by NIS)

- E-Government Programs  
  (Co-ordinated by ICTA)
Mandate drawn from the KICA, Part VIA, Section 83C:

- Facilitate e-commerce and eliminate barriers to e-commerce
- Promote & facilitate the efficient management of critical Internet Resources
- Promote confidence and trust in the use of e-transactions
- Develop a framework for facilitating the investigation and prosecution of cybercrime offenses
- Inform development of regulations
National KE-CIRT/CC

Phased implementation....

Phase 1: Reactive services

Phase 2: Proactive services

Phase 3: Digital Forensics

Phase 4: Cyber Threat Intelligence
Report an Incident

REPORT AN INCIDENT  GENERAL FEEDBACK

TREND MICRO SECOND QUARTER 2015 SECURITY REPORT
As part of its agreement with TrendMicro and with a view to accelerate sharing of relevant cyber security material to you, ITU presents Trend Micro's quarterly report which

SYMANTEC INTERNET SECURITY THREAT REPORT 2015
The Symantec Internet Security Threat Report 2015 report provides a quantitative and qualitative appreciation of incidents that have taken place in cyberspace during 2014.

TREND MICRO 2014 CYBER THREAT PREDICTION
A report from Trend Micro on 2014 Cyber threat predictions, with a foreword from ITU Secretary-General, to give Member States foresight in future Cyber-attack trends. Full
National KE-CIRT/CC

Collaboration....

Law Enforcement
www.myGov.go.ke

Northern Corridor Integration Projects - NCIP

EACO

ITU

FIRST

US-CERT

JPCERT/CC

Communications Authority of Kenya

Google
National KE-CIRT/CC

Awareness and Capacity Building....
National KE-CIRT/CC

How to contact the National KE-CIRT/CC....

- Web portal: www.ke-cirt.go.ke
- Email: incidents@ke-cirt.go.ke
- Telephone hotlines: +254-703-042700; +254-730-172700
- Visit CA Offices: Waiyaki Way, Mombasa, Eldoret
- Letter to the Director-General
OVERVIEW OF DRAFT KICA REGULATIONS, 2016
Placement of Draft Regulations

From vision to legal framework...

Vision 2030

ICT Sector Policy

Kenya Information and Communications Amendment Act 2013
(introduces Cybersecurity, e-Commerce & Broadcasting)

KICA (Cybersecurity) Regulations, 2016

KICA (Electronic Transactions) Regulations, 2016

National Cybersecurity Strategy

KICA (Electronic Certification and Domain Name Administration) Regulations, 2016
Objective of the Regulations

Why the provisions....

Develop a safe, secure and effective environment for the consumer, business and the Government

Develop a framework for facilitating the investigation and prosecution of cybercrime offences

Facilitate electronic commerce and eliminate barriers to electronic commerce

Promote and facilitate the efficient management of critical internet resources

Define Offenses and Penalties
Draft Regulations

Draft KICA (Cybersecurity) Regulations, 2016…

• **Key Provisions**
  o Operation and use of cyber cafes and public wireless hotspots
  o Management of critical Internet resources
  o Promotion of local content
  o Localization of public information and dot KE domains
  o Data retention & protection requirements
  o Framework for reporting, investigating, prosecuting and response to cyber crime under the National KE-CIRT/CC
  o Jurisdictional provisions
• **Key Provisions**
  - Requirement for Authorization from CA
  - Licensees to provide information about merchant, goods/services: name and legal status, contact details, Code of conduct, description of goods and services, full price, return policy, dispute resolution
  - Put in place a cancellation procedure
  - Tracking mechanism by which a customer can ascertain the location of their package
  - Required to use courier operators licensed by the Authority
  - Unsolicited communication
  - Contractual obligation
  - Limitation of liability for service provider
Draft Regulations

KICA (Electronic Certification and Domain Name Administration) Regulations, 2016

Key Provisions

- Recognition of foreign electronic certification service providers (E-CSP)
- Responsibilities of an E-CSP: certificate issuance, renewal, suspensions, revocation
- Obligations of a subscriber
- CA the trustee of the Dot KE domain
- Dot KE reserved & restricted words
- Liability of E-CSPs & dot KE Registry
- Performance audits & enforcement
- Security guidelines & incident handling procedures
- Winding up of operations
- Confidentiality, Integrity & Availability
Next Steps

Enhanced partnership....
Thank You

Q&A