NATIONAL CYBER SECURITY WEEK 2017

"Securing Ghana's Digital Journey"

23RD - 27TH OCTOBER 2017
ACCRA INTERNATIONAL CONFERENCE CENTRE
I wish to congratulate you on the occasion of Ghana’s National Cyber Security Week celebration. As the President of our great country, I am delighted to join all of you to create awareness and to dialogue on issues bordering on our cyber security. My government is fully committed to cyber security for a number of reasons:

- Digitalization is the backbone of my government’s economic development agenda. Around the world, the adoption of connected digital services by people, businesses, and governments, has emerged as a major driver and enabler of socio-economic development. Ghana, under my presidency is embarking on a similar journey – the introduction of national identification system, digital addressing system, mobile money interoperability system and e-government initiatives such as the paperless port system, e-procurement, e-justice and e-passport are specific digitalization initiatives of the government. My government intends to develop a smart economy to meet the aspirations of our citizens. As a result, investing in cyber security, is an imperative rather than a choice.

- Our commitment to cyber security as a government is also linked to our obligations under the United Nation’s Sustainable Development Goals (SDGs). As a co-chair of the SDG Advocates group, I am aware of the crosscutting nature of ICT and how indispensable they are for the full realisation of all the SDGs. According to the World Development Report 2016 on Digital Dividends, increase digitalization is impacting positively on developing countries. The impact of digitalization on developing economies, like Ghana is manifested in direct foreign investment, economic productivity and job creation. In addition, digitalization in government and the public sector has proven to be one of the most powerful tools to fight corruption, a canker which has the potential to derail our socio-economic transformation.

- My government is committed to cyber security because cybercrime is a borderless crime and Ghana has an obligation to secure its cyberspace in order to protect investors and to honour its commitments to the international community. In line with the above commitments, I signed the African Union Convention on Cyber Security and Personal Data Protection when I attended the 29th AU Summit in Addis Ababa. Our intention to accede to the...
Budapest Convention and our engagement with the United States government through the Security Governance Initiative (SGI) are other manifestations of our commitment to international cooperation as an instrument to address cybercrimes and cyber security issues.

My government is mindful of the fact that, the adoption of ICT as a foundation of our sustainable economic development will be futile without addressing the vulnerabilities emanating from the development and application of ICT systems and services across the various sectors of our economy.

According to the World Development Report 2014 on Risk and Opportunity, cyber-attacks could destroy lives, assets, trust, and social stability. Essentially, Ghana’s critical infrastructures are inherently dependent on ICTs and therefore the survival of our economy and its critical systems such as power, telecommunication systems, financial sector, government services and the entire social and security system is dependent on the ability of the government to protect and secure ICT assets and systems.

Ladies and gentlemen, Ghana cannot fully reap the digital dividends associated with our adoption of ICT as a means of our socio-economic transformation if we fail to mitigate cyber security threats. The UN SDG 9 requires our country to develop resilient infrastructures including ICT systems in order to sustain our economic development. My government therefore is resolved to address these challenges in order to safeguard our digital journey.

My government is committed to address issues of cyber security governance, capacity building, international cooperation, judicial enforcement of cybercrime legislations, research and development and implementation of relevant technical standards and safeguards to secure our digital journey.

To develop a sustainable cyber security ecosystem for Ghana, private sector involvement is key. Therefore, I wish to encourage partnerships and collaboration between the government and the private sector to facilitate information sharing, capacity building and research and development towards self-reliance.

I congratulate the Ministers for Communications, National Security, Interior, Defence, Finance, Foreign Affairs and Justice for their appointment to the National Cyber Security Inter-Ministerial Advisory Council and entreat them to work with the private sector and our international partners to scale up Ghana’s cyber security readiness.

I wish all of you an exciting engagement towards securing Ghana’s digital journey.

Thank you.

Nana Addo Dankwa Akufo-Addo
President of the Republic of Ghana
STATEMENT – MINISTER FOR COMMUNICATIONS

Welcome to the National Cyber Security Week and I am delighted to have all the stakeholders here to share ideas, raise awareness and discuss our cyber security.

The Ministry of Communications has oversight responsibility for the government’s digitalization agenda and is actively working to ensure the success of the initiatives being implemented by government including the national identification system, the national digital property addressing system, and a number of e-government projects. We recognise that ICTs are indispensable for development and have a cross cutting nature and are determined to do our best to enable the NPP vision of a massive transformation of the economy through technology succeed.

‘It is Digitime’ in Ghana. This slogan demonstrates the government’s prioritisation of ICTs and the crucial role it plays in accelerated socio-economic development. Through the Ministry of Communications, Ghana is developing a robust framework to support our digitisation. Mindful of the dangers inherent in increased usage of cyberspace however, the MOC is also leading the national effort to scale up our country’s cyber security readiness.

Some initiatives we have undertaken include the following:

- Established the National Cyber Security Secretariat and appointed the Cyber Security Advisor as we begin the implementation of our National Cyber Security Policy and Strategy (NSCPS).
- Set up the National Cyber Security Inter-Ministerial Advisory Council (NCSIAC) made up of the Ministries of Communications, National Security, Justice/Attorney-General, Interior, Finance, Defence and Foreign Affairs, with private sector representatives in attendance to provide policy guidance.
- Instituted the National Cyber Security Technical Working Group (NCSTWG) with representatives from all national institutions with a mandate on cybercrime and cyber security to ensure implementation of policy decision within the various sectors.
- Initiated capacity building programmes for the criminal justice sector through Ghana’s partnerships with the Council of Europe (GLACY+ Project) and the US Government (through the Security Governance Initiative – SGI)
- The Ministry of Communications has been actively engaging with government and our development partners on funding for cyber security, within the last few months.

The immediate priority of the Ministry is to undertake a national cyber security risk assessment to identify cyber vulnerabilities and priority areas that require immediate and specific interventions and we are working with the World Bank to conduct a Cyber security Capacity Maturity Model to assess the level of development of national cyber security efforts from the policy, regulatory, end-user, and other
perspectives, in order to provide recommendations to government on how to enhance our cyber security readiness.

We will be setting up a National Computer Emergency Response team (CERT) to improve Ghana’s cyber security emergency response readiness, review the National Cyber Security Policy and Strategy (NCSPS) to ensure it is compliant with international best practices and develop guidelines on cyber security for government and public-sector officials. This initiative will set the foundation for building a culture of cyber security across the public sector.

We will also implement a number of capacity building programmes to improve cybercrime prevention, prosecution and adjudication and cyber security awareness of individuals, businesses and government officials.

The Ministry of Communications, in collaboration with other stakeholders will set up Ghana’s National Cyber Security Centre (NCSC) with full technical and human resource capabilities to oversee national cyber security operations. This will position Ghana among the elite countries with such a facility and transform the country into a cyber security hub in the sub-region.

The government is grateful to its international partners especially the Council of Europe, the US Government and the ITU for their support for Ghana’s cyber security. We also appreciate support from our local partners and stakeholders.

Ghana is on course with its international commitments on cyber security. The accession to the Budapest Convention is currently before Cabinet and ratification by Parliament is expected later in the year. The President has signed the Africa Union treaty on Cyber Security and Personal Data Protection and it is imperative that we work towards achieving the objectives and targets of the Convention. We need to operationalize the ECOWAS Directive on Cybercrime to ensure cross-border investigations and prosecutions of cybercrimes within the sub-region.

I congratulate the members of the event planning committee for their commitment and the enormous amount of work they have put in to ensure the success of this event. We are grateful to all our sponsors for their kind donations which have also helped make this cyber security week happen.

We will build an effective harmonized national cybersecurity strategy only with multi stakeholder engagement and the commitment shown by our various stakeholders so far, gives me the confidence that we can do it. It is an exciting time for our cyber security as a country. The government is committed and it has already set the pace for the country’s cyber security development. I therefore urge all of you – individuals, businesses, organizations and our international partners to get involved in our quest to secure Ghana’s digital journey.

Thank you.

Honourable Ursula Owusu-Ekuful
Minister for Communications
MEMBERS OF THE NATIONAL CYBER SECURITY INTER-MINISTERIAL ADVISORY COUNCIL (NCSIAC)

Hon. Ursula Owusu-Ekuful
Minister for Communications

Hon. Gloria Afua Akuffo
Minister of Justice & Attorney General

Hon. Ken Ofori-Atta
Minister for Finance & Economic Planning

Hon. Ambrose Dery
Minister for the Interior

Hon. Shirley Ayorkor Botchway
Minister for Foreign Affairs

Hon. Dominic Nitiwul
Minister for Defence

Hon. Albert Kan-Dapaah
Minister for National Security
BACKGROUND TO THE CYBER SECURITY WEEK

Cyber Security Week is an annual event which aims to raise awareness of cyber crime trends and to highlight the growing importance of cyber security at all levels – people, businesses and government. Hosting the event this year, in line with global practices, provides a unique opportunity to demonstrate the government’s new vision and strategy to scale up Ghana’s cyber security in order to secure the country’s digitisation agenda.

Cyber Security Week aims to create awareness of cyber security and anti-cyber crime initiatives and to build the capacity of different stakeholders within the cyber security ecosystem. It also provides an opportunity for local and international stakeholders to engage and share ideas on cyber security initiatives being pursued within the industry and best practice. Cyber Security Week is important for a number of reasons. Ghana has joined the growing rank of countries that have recognized the importance of cyber security as a core function in response to technological advancements and use.

In addition, Information sharing and stakeholder engagement is key to building and sustaining an effective cyber security ecosystem. Cyber Security Week aims to enhance cooperation, strengthen partnerships and foster a collaborative approach to securing Ghana’s digital journey.

Cyber Security Week offers an excellent opportunity for information sharing and engagement and is a key component in building an effective and robust cyber security ecosystem in Ghana.

Key Objectives of Cyber Security Week 2017

1. Create awareness of cybercrime trends, cyber security and cyber hygiene practices.

2. Demonstrate the government’s new vision and direction on cyber security and highlight strategies towards achieving the vision.

3. Strengthen partnerships and consolidate cyber security related activities within the country.

4. Consolidate Child Online Protection (COP) related activities within the country to enhance Ghana’s own COP strategy.

5. Support the Government’s digitisation agenda by building the resilience across all levels (people, businesses, and government).

6. Highlight strides made in Ghana’s cyber security efforts, nationally and in line with global best practices.
The National Cyber Security Secretariat has been set up within the Ministry of Communications to coordinate national efforts and to provide a focal point for the convergence of all cyber security activities and programmes being developed or implemented by government agencies and the private sector, within the context of Ghana’s national cyber security policy and strategy.

FOR FURTHER INFORMATION PLEASE CONTACT:
Email: info@cybersecurity.gov.gh
Tel: 050 318 5846
I wish to welcome you to the 2017 edition of the National Cyber Security Week! It is exciting that we have joined the global cyber community to celebrate this national event. I am particularly excited that we have different stakeholders, across all levels of the cyber security ecosystem representing at this event. This is a clear manifestation of Ghana’s multi-stakeholder approach towards addressing the country’s cyber security challenges.

Ladies and gentlemen, it is exciting time for cyber security development in Ghana. The current level of digitalization – both in the public and the private sectors of our economy requires concerted efforts to scale up our cyber security, which is rated below 35% by the International Telecommunications Union (ITU). ITU’s Global Cybersecurity Index Report for 2017 provides a good background of Ghana’s cyber security landscape – across multiple domains, including – the state of Ghana’s national cybercrime legislations and enforcements, current technical measures, cyber security institutional frameworks, capacity building and cooperation, among others.

The United Nations Sustainable Development Goals (SDGs) require countries to adopt innovation and to secure critical infrastructures including ICT infrastructures. Current trends in Ghana’s digitalization is consistent with the requirements of the SDGs. Therefore, it is imperative that our country invests in cyber security.

As the Cyber Security Advisor to the Government, I have set out five key broad objectives, towards improving our country’s cyber security readiness:

- Develop an independent, sustainable multi-stakeholder institutional framework for Ghana’s cyber security based on international benchmarks and existing institutional arrangements;
- To develop our national cyber security capabilities to protect our critical infrastructures and to respond to both existing and emerging cyber threats;
- To support national institutions with a mandate on cybercrime/cyber security to develop their cybercrime and cyber security response capabilities, consistent with their mandates.
- To foster cyber security cooperation and partnerships at all levels (In-Country, Sub-Regional and International).
- To develop a culture of cyber security in Ghana (at the individual, organizational and government levels).

These objectives are the drivers to secure Ghana’s digital journey, which can only be achieved through continuous in-country engagements (public and private sector engagements) and partnerships with Ghana’s international friends.

I therefore invite all and sundry to join the new vision on cyber security and to stay on board as we drive Ghana’s cyber security agenda forward.

Thank you.

Albert Antwi-Boasiako
National Cyber Security Advisor
# THE NATIONAL CYBER SECURITY TECHNICAL WORKING GROUP

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kwabena Adu-Boahene</td>
<td>BNC</td>
</tr>
<tr>
<td>Afia Asantewah Sekyere</td>
<td>BNI</td>
</tr>
<tr>
<td>Dr. Herbert G. Yankson</td>
<td>CID</td>
</tr>
<tr>
<td>Elikem Fiamavle</td>
<td>GHANA ARMED FORCES</td>
</tr>
<tr>
<td>Eric Akumiah</td>
<td>MOC</td>
</tr>
<tr>
<td>Gilbert Addy</td>
<td>ISACA</td>
</tr>
<tr>
<td>Jeff Konadu</td>
<td>NITA</td>
</tr>
<tr>
<td>Jennifer Mensah</td>
<td>NCA</td>
</tr>
<tr>
<td>Joe Anokye</td>
<td>NCA</td>
</tr>
<tr>
<td>Afia Serwaas Asare-Botwe J.</td>
<td>JUDICIARY</td>
</tr>
<tr>
<td>Kofi Boakye</td>
<td>FIC</td>
</tr>
<tr>
<td>Matilda Wilson</td>
<td>NIA</td>
</tr>
<tr>
<td>Kwadwo Osafo Maafro</td>
<td>NCA</td>
</tr>
<tr>
<td>Osei Bonsu Dickson</td>
<td>NATIONAL SECURITY</td>
</tr>
<tr>
<td>Nana Osei Tutu</td>
<td>BNC</td>
</tr>
<tr>
<td>Samuel Adjani</td>
<td>GRA</td>
</tr>
<tr>
<td>Tim Coleman</td>
<td>BNI</td>
</tr>
<tr>
<td>Yvonne Atakora</td>
<td>MOJAGD</td>
</tr>
<tr>
<td>Patricia Adusei-Poku</td>
<td>DPC</td>
</tr>
<tr>
<td>Margaret Abba</td>
<td>NCA</td>
</tr>
<tr>
<td>Otu Seppey</td>
<td>GHANA ARMED FORCES</td>
</tr>
<tr>
<td>Richard Quaye</td>
<td>EOCO</td>
</tr>
<tr>
<td>Jacob Puplampu</td>
<td>EOCO</td>
</tr>
</tbody>
</table>
## PROGRAMME – MAIN AGENDA

### DAY 1 - MONDAY OCTOBER 23, 2017  
**Thematic Area - Governance**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.30am</td>
<td><strong>Formal Opening Ceremony</strong>&lt;br&gt;<strong>Musical/cultural Interlude</strong>&lt;br&gt;<strong>Introductory Address</strong>&lt;br&gt;Remarks by ECOWAS&lt;br&gt;Remarks by African Union Commission&lt;br&gt;Remarks by Council of Europe&lt;br&gt;Remarks by the United Nations&lt;br&gt;Remarks by US Embassy/Security Governance Initiative&lt;br&gt;Opening Speech &amp; Inauguration of National Cyber Security Technical Working Group (NCSTWG)&lt;br&gt;Keynote Address &amp; Inauguration of National Cyber Security Inter-Ministerial Advisory Council (NCSIAC)&lt;br&gt;Group Photograph (Dignitaries)&lt;br&gt;Visit to Exhibition (Dignitaries)</td>
</tr>
<tr>
<td>11.30am</td>
<td><strong>BREAK</strong></td>
</tr>
<tr>
<td>12pm-2pm</td>
<td><strong>Inauguration &amp; High Level Dialogue</strong>&lt;br&gt;National Dialogue for Digital Transformation - High Level (closed door meeting)</td>
</tr>
<tr>
<td>1pm</td>
<td><strong>LUNCH BREAK</strong></td>
</tr>
<tr>
<td>12pm-1pm</td>
<td><strong>Overview of Ghana’s National Cyber Security Institutional Framework</strong></td>
</tr>
<tr>
<td>2pm-3.30pm</td>
<td><strong>Panel Discussion - Cyber Security Governance in the Private &amp; Public Sector</strong></td>
</tr>
</tbody>
</table>

### DAY 2 - TUESDAY OCTOBER 24, 2017  
**Thematic Area - Cyber Security Conferences & Workshops**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9am</td>
<td><strong>ECOWAS Directive on Cybercrime</strong></td>
</tr>
<tr>
<td>9am-9.45am</td>
<td><strong>African Union Convention on Cyber Security &amp; Personal Data Protection</strong></td>
</tr>
<tr>
<td>10.30am</td>
<td><strong>COFFEE BREAK</strong></td>
</tr>
<tr>
<td>11am-12pm</td>
<td><strong>The Budapest Convention &amp; International Cooperation against Cybercrime</strong></td>
</tr>
<tr>
<td>12pm-1pm</td>
<td><strong>Cyber Security in the Context of Military Defence</strong></td>
</tr>
<tr>
<td>1pm</td>
<td><strong>LUNCH BREAK</strong></td>
</tr>
<tr>
<td>2pm-2.45pm</td>
<td><strong>Cyber Security &amp; Forensics Readiness</strong></td>
</tr>
<tr>
<td>2.45pm-3.45pm</td>
<td><strong>Cyber Security &amp; National Wellbeing - National Security Perspective</strong></td>
</tr>
<tr>
<td>3.45pm-4.45pm</td>
<td><strong>Data Protection &amp; Cyber Security</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Ministerial Roundtable Dialogue &amp; SGI Stakeholder Mapping Workshop</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Venue:</strong> Meeting Room (AICC)</td>
</tr>
<tr>
<td></td>
<td><strong>NCSTWG</strong></td>
</tr>
</tbody>
</table>

### DAY 3 - WEDNESDAY OCTOBER 25, 2017  
**Thematic Area - Child Online Protection**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9am</td>
<td><strong>Opening Remarks</strong></td>
</tr>
<tr>
<td>9am-9.30am</td>
<td><strong>What &amp; Why COP</strong></td>
</tr>
<tr>
<td>9.30am-10.30am</td>
<td><strong>COFFEE BREAK</strong></td>
</tr>
<tr>
<td>11am-12pm</td>
<td><strong>Positive Use of Mobile &amp; ICTs</strong></td>
</tr>
<tr>
<td>12pm-1pm</td>
<td><strong>International Perspectives on Best Practices for COP</strong></td>
</tr>
<tr>
<td>1pm</td>
<td><strong>LUNCH BREAK</strong></td>
</tr>
<tr>
<td>2pm-2.45pm</td>
<td><strong>The Stakeholder Roles for COP in Ghana</strong></td>
</tr>
<tr>
<td>2.45pm-3.30pm</td>
<td><strong>Industry Proposals for Safe &amp; Responsible Use of Internet by Children &amp; Young Persons</strong></td>
</tr>
<tr>
<td>3.30pm-4.30pm</td>
<td><strong>Towards a Comprehensive National Strategy</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SGI Stakeholder Mapping Workshop</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Venue:</strong> Meeting Room (AICC)</td>
</tr>
<tr>
<td></td>
<td><strong>NCSTWG &amp; Other Stakeholders</strong></td>
</tr>
</tbody>
</table>
### DAY 4 - THURSDAY OCTOBER 26, 2017  Thematic Area - Technology Solutions

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9am-10.30am</td>
<td>Technology Solutions</td>
</tr>
<tr>
<td>10.30am-11am</td>
<td>Panel Discussion - Countering Mobile Money Fraud - Perspectives from Stakeholders</td>
</tr>
<tr>
<td>11am-11.40am</td>
<td>Presentation on Cyber Security Technology Solution</td>
</tr>
<tr>
<td>11.40am-12.30pm</td>
<td>Cyber Security Technology Options for People, Businesses, Government</td>
</tr>
<tr>
<td>12.30pm-1pm</td>
<td>Presentation on Cyber Security Technology Solution</td>
</tr>
<tr>
<td>1pm-2pm</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td>2pm-2.45pm</td>
<td>Smartphone Security Risks &amp; Technology Solutions</td>
</tr>
<tr>
<td>2.45pm-3.30pm</td>
<td>Dealing with Insider Threats - Technology Solutions Option</td>
</tr>
<tr>
<td>3.30pm-4.30pm</td>
<td>Issues of Digital Footprints &amp; Digital Reputation</td>
</tr>
<tr>
<td>11am-11.40am</td>
<td>Workshop by Innovare</td>
</tr>
</tbody>
</table>

** Venue:** Committee Room 2 (AICC

### DAY 5 - FRIDAY OCTOBER 27, 2017  Thematic Area - Cybercrime, Cyber Hygiene & Awareness

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9am-9.45am</td>
<td>Group 1 Session</td>
</tr>
<tr>
<td>9am-9.45am</td>
<td>Cybercrime Trends in Ghana</td>
</tr>
<tr>
<td>9.45am-10.30am</td>
<td>Awareness of Cybercrime Legislations</td>
</tr>
<tr>
<td>10.30am-11am</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>11am-12pm</td>
<td>Cyber Security &amp; Universal Access - GIFEC Perspective</td>
</tr>
<tr>
<td>12pm-1pm</td>
<td>Cyber Security Awareness in the Public Sector</td>
</tr>
<tr>
<td>1pm-2pm</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td>2pm-2.45pm</td>
<td>Panel Discussion - Responsibilities in the Cyberspace (People, Businesses, Government)</td>
</tr>
<tr>
<td>2.45pm-3pm</td>
<td>Computer Security at the Workplace</td>
</tr>
<tr>
<td>3pm-3.45pm</td>
<td>Social Media - the Good, the Bad, the Ugly</td>
</tr>
<tr>
<td>3.45pm-4.30pm</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>9.45am-10.30am</td>
<td>Virus Entry Points - We Open the Doors</td>
</tr>
<tr>
<td>10.30am-11am</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>11am-12pm</td>
<td>Personal Security in the Inter-connected World</td>
</tr>
<tr>
<td>12pm-1pm</td>
<td>Cyber Security Best Practices - GISPA's Perspective</td>
</tr>
<tr>
<td>1pm-2pm</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td>2pm-2.45pm</td>
<td>Panel Discussion - Data Protection, What Can We Do?</td>
</tr>
<tr>
<td>2.45pm-3pm</td>
<td>“Cyber Security is Everyone’s Problem. Do Your Part!”</td>
</tr>
<tr>
<td>3pm-3.45pm</td>
<td>tbd</td>
</tr>
</tbody>
</table>

** Venue:** Committee Room 1 (AICC  

** Venue:** Committee Room 2 (AICC
## PROGRAMME – OTHER EVENTS

<table>
<thead>
<tr>
<th>EVENT/PROGRAMME</th>
<th>BRIEF DESCRIPTION</th>
<th>STAKEHOLDERS INVOLVED</th>
<th>VENUE/LOCATION</th>
<th>DATE</th>
</tr>
</thead>
</table>
| **One-Day Workshop on Network Forensics & Incident Handling** | Hands-on workshop covering network forensics, incident response and handling, threat analysis, etc. | • AfricaCERT  
• e-Crime Bureau  
• Universities  
• Insurance industry, etc. | AITI-KACE                        | Friday October 27, 2017               |
| **Ethical Hacking Workshop**                         | Certification programme in Ethical Hacking                                         | • Accra Digital Centre (ADC)  
• Slamm Technologies  
• AITI-KACE                        | Accra Digital Centre (ADC)            | Monday October 23 – Thursday October 26, 2017 |
| **Workshop on Cyber Security Awareness**             | A 2-day workshop targeting IT personnel from public sector institutions            | • Security Governance Initiative (SGI)  
• NITA                           | AITI-KACE                        | Thursday October 26 – Friday October 27, 2017 |
| **Safe & Secure Online**                             | Interactive presentation on online safety for children                             | • School Authorities  
• (ISC)2 Ghana Chapter           | Selected Schools’ Premises         | Monday October 23 - Friday October 27, 2017 |
| **Opening of Digital Forensics Lab at the KNUST**    | Formal opening of e-Crime Bureau funded digital forensics lab at the KNUST by the Inspector-General of Police | • e-Crime Bureau  
• KNUST  
• Ghana Police                      | KNUST, Kumasi                     | Wednesday October 25, 2017            |
IAI-ELTA AT A GLANCE

IAI-ELTA is a Government owned Company and is one of Israel’s leading defense electronics companies and a global leader in a variety of areas. ELTA’s products are designed for Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR), Early Warning and Control, Homeland Security (HLS), Self-Protection and Self-Defense, and Fire Control applications.

IAI’s broad suite of cyber intelligence products covers the modern cyber realm (social media, cloud based services, open web and the dark-web), the cellular realm (global cellular location, native interception and geolocation of 2G, 3G and 4G communication) and COMINT (interception and production of microwave, satellite, and tactical COMINT-HF, VHF & UHF - communication).

These advanced capabilities are possible due to the unique technologies developed by IAI’s research, development and excellence centers, offering IAI’s customers a wide range of capabilities for handling evolving and ever growing cyber threats.

IAI operates four cyber research and development centers (in Singapore, Switzerland, and Israel) and heads the Israel Cyber Company Consortium (IC3), which offers end-to-end solutions for national cyber systems.
IAI-ELTA CYBER TECHNOLOGY & PRODUCTS

A wide range of surveillance and alert products, cyber warfare systems, intelligence gathering products, integration of all levels and end-to-end solutions in the field of cyber protection.

End-to-End Cyber Centers:
Round-the-clock cyber surveillance of multiple end-users’ and national infrastructures, in order to achieve a real-time situational awareness of the state of cyber security, and to disseminate security incident and early-warning information on a 24x7 basis.

Fusion Center
• Effectively detect cyber threats through correlation and analysis of collected information, and provide timely alerts
• Detect new and advanced cyber threats
• Generate cyber insights through collected logs
• Disseminate the insights to the various end-users of the Cyber Early Warning Center

From Sensors to Centers – Intelligence and Information Gathering tools:
• Next Generation Lawful Interception solution
• Extracting valuable intelligence from social media, open web, deep web, dark net & BitCoin transactions
• Cutting edge entity management solution

Capability Buildup, Training, Testing, Simulation & Forensics
National, sectorial and organizational capability buildup via training, testing and simulation of complex cyber scenarios

Cyber Analytics and Forensics
Using advanced analytics capabilities to turn cyber challenges into stepping stones towards tackling the “Attribution Challenge”
NCSW PLANNING COMMITTEE

Honourable Vincent Odotei-Sowah
Ministry of Communications

Valerie Hudson
Ministry of Communications

Rhoda Gavor
Ministry of Communications

Adwoa Assan
Ministry of Communications

Awo Aidam Amenyah
J Initiative

Alex Oppong
E-Crime Bureau

Eric Akumiah
CERT-GH

Nuhu Mahama
Ministry of Communications

Albert Antwi-Boasiako (Chair)
National Cyber Security Advisor

C.K Bruce
Innovare

Eno Brago Attrams
National Cyber Security Secretariat

Katherine Headley
US Embassy Ghana

Nana Defie-Badu
National Communications Authority

Owusu Bediako-Poku
ISACA Ghana Chapter

Derek Laryea
Telecoms Chamber

Louisa Efua Hughes
National Cyber Security Secretariat

Dr. Gustav Yankson
Police CID

Patricia Adusei-Poku
Data Protection Commission

Kwadwo Osafo-Maafu
National Communications Authority

Nana Ntim
Ministry of Communications

Yahaya Daudi
Ministry of Communications
CYBER SECURITY WEEK 2017 SPEAKERS

Patricia Adusei-Poku  
Exe. Dir., Data Protection Commission

C.K. Bruce  
CEO, Innovare

Albert Antwi-Boasiako  
National Cyber Security Advisor

Andy Akoto  
Partner, KPMG

Joe Anokye  
Ag. Director General, NCA

Manuel de Almeida Pereira  
Prog. Manager, Council of Europe

Dr. Herbert Gustav Yankson  
Head, Cybercrime Unit, CID HQ

Awo Aidam Amenyah  
Executive Director, J Initiative

Warren Hero  
CTO, Microsoft Africa

Camila Edry  
IAI-ELTA

Francis Kyereh  
Consultant, Sysnet Global Solutions

Alex Oppong  
Principal Consultant, E-Crime Bureau

Dani Paslev  
IAI-ELTA

Joseph Djokey  
CEO, RHQ Digital Limited

Philemon Hini  
Technical Ops, E-Crime Bureau
Rayzone Group Ltd

CYBER POWER
Intelligent Cyber Security Suite

Critical Assets Protection

Cyber Defense

Cyber Academy

Cyber Knowledge

Cyber Consulting

Cyber C4 Platform

Cyber Intelligence Center

Security Operations Center (SOC)
COUNCIL OF EUROPE - GLACY

The Council of Europe advocates freedom of expression and of the media, freedom of assembly, equality, and the protection of minorities. It has launched campaigns on issues such as child protection, online hate speech, and the rights of the Roma, Europe’s largest minority. The Council of Europe helps member states fight corruption and terrorism and undertake necessary judicial reforms. Its group of constitutional experts, known as the Venice Commission, offers legal advice to countries throughout the world.

GLACY+ (Global Action on Cybercrime Extended) is a Joint project of the European Union (Instrument Contributing to Peace and Stability) and the Council of Europe.

GLACY+ is intended to extend the experience of the GLACY project (2013 – 2016) which supports 10 priority countries in Africa and the Asia-Pacific region – Mauritius, Morocco, Philippines, Senegal, Ghana, Sri Lanka, Tonga, Cape Verde, Costa Rica and The Dominican Republic. These countries may serve as hubs to share their experience within their respective regions. Moreover, countries of Latin America and the Caribbean now also benefit from project support.

Ghana became a priority country in the joint project Council of Europe/European Union GLACY+ and since its inception in March 2016 has been an observer in the Cybercrime Convention Committee (T-CY). The country was invited to join the Budapest Convention in June 2016 and in October 2016 the initial assessment and establishment of the GLACY+ national team in Ghana took place. In November 2016 the Cabinet approved accession to the Budapest Convention.

Several in-country activities were organized in Ghana under the GLACY+ project in 2017, namely:
- Advisory mission on Cyber strategy and policy [January];
- Intro ToT for judges and prosecutors [April];
- Support to National delivery in Ada and Kumasi [August];
- ECTEG course for cybercrime investigators [September];

An international event with the participation of all GLACY+ countries also took place in March 2017, namely, the International Workshop on reporting systems and on the collection of statistics on Cybercrime, with the participation of the Ministers of Communication and National Security.
IDENTITY AND ASSET MANAGEMENT

- CCTV Digital Surveillance Systems
- RFID and Asset Tracking Systems
- Key Management Systems
- Event and Ticketing Systems
- Security Access Control & Time/Attendance Systems
- ID Card Security Solutions and Systems
- ID Card Databases
- Specialized Security products
- Identity and Security Project Proposal Evaluation and Monitoring

IDENTITY AND SECURITY SUPPORT SOLUTIONS

- Flexographic Print Solutions (Labels, Scratch Cards)
- Loyalty and Smart Card Systems
- Maintenance Services (Warranty and Post Warranty)

BANK SUPPORT SERVICES

- Chip Cards, Contact-less Cards, Magnetic Stripe Cards and Bar-coding
- Printing & Encoding of Dual Interface Smart Cards
- Card Printers and Encoders
- Card Body Manufacturing and Personalization Solutions

PRINT FINISH SOLUTIONS

- Professional Binding Machine and Accessories
- Professional Graphic Machines and Accessories
- Office Desktop Items
- Large Format Printing

IDENTITY AND SECURITY SUPPORT SOLUTIONS

- Flexographic Print Solutions (Labels, Scratch Cards)
- Loyalty and Smart Card Systems
- Maintenance Services (Warranty and Post Warranty)

MARGINS GROUP

12th Floor, Ridge Towers, Ridge - Accra
www.marginsgroup.com
info@marginsgroup.com
sales@margins-id.com

"Securely Connecting People and Solutions in a Materialized and De-Materialized world"


The digital revolution has enhanced the ability to conduct business but it has also created a complex set of security issues. Assets, once physically protected, are now accessible online. Customer channels are vulnerable to disruption. Criminals have new opportunities for theft and fraud.

Private data, intellectual property, cyber infrastructure, and even military and national security can be compromised by deliberate attacks, inadvertent security lapses, and the vulnerabilities of a relatively immature, unregulated global internet. Working hand-in-hand with member firm clients, Deloitte helps organizations plan and execute an integrated cyber approach to harness the power of information networks to enhance business operations, increase mission performance, and improve customer support, without compromising security or privacy.

Deloitte named a global leader in cyber security consulting by Kennedy.

For more information, contact gd.deleotide@deloitte.com

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee, and its network of member firms, each of which is a legally separate and independent entity. Please see www.deleotide.com/about for a detailed description of the legal structure of Deloitte Touche Tohmatsu Limited and its member firms.

Deloitte provides audit, consulting, financial advisory, risk advisory, tax and related services to public and private clients spanning multiple industries. Deloitte serves four out of five Fortune Global 500 companies through a globally connected network of member firms. Deloitte's network has over 280,000 people in more than 150 countries and territories, providing industry-leading audit, tax, consulting and advisory services.

Deloitte Touche Tohmatsu Limited and/or one or more of its member firms is/are a member of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee and its network of member firms, each of which is a legally separate and independent entity.
Ghana’s Leading Company in Cyber Defence

- Reputed Cyber Security Solutions and Expertise
- Vulnerability Assessments and Penetration Testing
- Forensic Investigations

To Complain, call

Toll free
0800 110 622
Hotline
0307 011 419

Servicing Ghana for the past 14 years

www.stlghana.com || info2@stlghana.com || +233 30 2782646/7

NATIONAL COMMUNICATIONS AUTHORITY

Head Office:
NCA Tower, No. 6 Airport City
Close to the Marina Mall
Postal Address
P. O. Box CT 1568, Cantonments, Accra

Telephone Number(s)
+233 (0) 302-77621, +233 (0) 302-771701,
+233 (0) 302-762823, +233 (0) 501 451522/3
Fax Number; +233 - 0302 - 763449
Email Address: info@nca.org.gh
Web Address: www.nca.org.gh

Communications for Development
Register Now!

Info: 0208 197 169 / 0508 923 684

Visit: www.adc.gov.gh/training
"The Ghana Chamber of Telecommunication is an industry association and a private initiative by the mobile network operators in Ghana. We are an advocacy institution established to help direct telecommunications policy, legislation and regulation, and pursue research towards the development of telecommunications."
Thank you to all our Sponsors & Partners
Working together to Secure Ghana’s Digital Journey