

e-COMMONWEALTH

A NEWSLETTER OF THE COMMONWEALTH TELECOMMUNICATIONS ORGANISATION

//JUNE 2017

// CTO WORKING WITH MEMBERS TO
ENHANCE CYBERSECURITY

// ICANN59: COMMONWEALTH
DISCUSSES INTERNET GOVERNANCE
IN SOUTH AFRICA

// CTO UPCOMING EVENTS 2017



//EDITORIAL



Shola Taylor
Secretary-General

Dear Readers,

The month of June was a busy month for the CTO. I was particularly delighted to lead a CTO delegation at ICANN59 in Johannesburg; once again, this was another opportunity to hold a Commonwealth Government Advisory Committee (C-GAC) meeting to promote greater participation by Commonwealth countries in ICANN's policy development work. I noted that most participants continued to point to the need for greater capacity development in Internet governance, especially for underserved regions, and with the expansion of gTLDs, I see this as a need that is absolutely essential to address.

Our work on cybersecurity and cyber standards continued with Botswana, Nigeria, Rwanda and Malawi, and we are looking forward also to work with Senegal on the same issue in the coming weeks. Naturally, I am truly grateful for the collaboration the CTO's teams have received from each of these member governments.

Our wider work in capacity development and professional training for members continues to increase also, and it is very pleasing to see them making progress in key areas such as data protection or mobile broadband.

Finally, with our programme of events for the second half of the year now firmly in place, I look forward to welcoming you at each one of them. I am particularly excited with the arrangements being put in place by Mozambique's Autoridade Reguladora das Comunicações, host of our annual Forum to take place in September.

I hope you find this issue of e-COMMONWEALTH helpful, but as always, please do send us your feedback on any way we can improve it.//

//RECENT DEVELOPMENTS

ICANN59: Commonwealth discusses Internet governance in South Africa



Ingrid Poni, Shola Taylor, Mark Carvell and Nigel Hickson attending the Commonwealth GAC Meeting at ICANN59.

Coordinating Commonwealth views during international ICT discussions and treaty conferences and supporting the input of Commonwealth countries to these fora is a priority strand of the CTO's work. This work supports member country participation in these important debates and also contributes to the success of negotiations, ensuring that Commonwealth countries play their part in achieving the Sustainable Development Goals for ICTs.

The Government Advisory Committee (GAC) to the Internet Corporation for Assigned Names & Numbers (ICANN) met in Johannesburg, South Africa on 26 - 29 June. As with such previous meetings, the CTO convened a meeting of Commonwealth interested parties to the GAC on 28 June to discuss the implications of Internet governance for Commonwealth countries, with specific focus on capacity building.

The meeting was addressed by Ingrid Poni, Chief Director, Ministry of Telecommunications and Postal Services. Ms Poni welcomed all participants to South Africa and urged that the forum be used to share expertise on issues such as gTLDs and accountability.

There was also a presentation from Alice

Munyua, co-chair of the Underserved Regions Working Group and Public Safety Working Group, on ICANN's capacity building work, designed to facilitate participation in the ICANN process by smaller nations. Ms Munyua reported on three workshops held in Kenya, Fiji and South Africa, and provided an update on upcoming events.

During the following discussion, delegates shared the areas of capacity building they believe are required. These included child online protection, cloud computing and data protection, particularly within the context of the EU's General Data Protection Regulation which was a key issue of concern at the ICANN meeting.

"ICANN's capacity building work is of great value to those nations wishing to play a full role in the ICANN process," said Shola Taylor, secretary-general of the CTO and chair of the Commonwealth GAC. *"This forum also facilitates Commonwealth countries contribution to the GAC, through updates on ICANN and other Internet governance developments and by providing a means for the Commonwealth to contribute its unique collective voice to the deliberations. I urge colleagues to get involved in our meetings at future ICANN events and contribute to these discussions."*//

New director-general for Cameroon's TRB

The Telecommunications Regulatory Board (TRB) of Cameroon has announced the appointment of Philémon Zo'o Zame as the new director-general. Mr Zo'o Zame replaces Jean-Louis Beh-Mengue.

Prior to his appointment at TRB, Mr Zo'o Zame was secretary-general at the Department of Public Works and has held several senior positions in a variety of sectors in Cameroon.

"I would like to congratulate Mr Zo'o Zame on his appointment to this prestigious role," said CTO secretary-general, Shola Taylor.

"Cameroon and the CTO have had a long and fruitful relationship over the years, with TRB playing a major role in our Programme for Development & Training, and I look forward to this strengthening and developing under Mr Zo'o Zame's leadership."//

//TECHNICAL SUPPORT & CONSULTANCY



CIIP workshop participants in Malawi on 19 - 20 June 2017.

CTO working with members to enhance cybersecurity

ICTs play an integral role in national development plans and the international community's efforts to realise the Sustainable Development Goals. However, as use of ICTs expands, so too does the opportunity for criminal use of cyberspace, with cyberattacks and cybercrime preventing the global community from drawing the full benefits of cyberspace.

The CTO's members are fully aware of the need to develop robust national cybersecurity strategies to protect their national ICT industry and the services and facilities that rely on this. The CTO has been working since 2010 with members across the Commonwealth on producing and implementing national cybersecurity strategies, understanding how to protect critical information infrastructure and developing high-quality cyber standards.

This month has seen the Technical Support & Consultancy (TSC) team work with a number of members in Africa on various aspects of cybersecurity.

Botswana

In Botswana the CTO held a workshop to train officers from the Botswana Defence Forces (BDF) to become potential assessors of Cyber Essentials and Information Assurance for SME (IASME) Governance Standards in

Botswana. The workshop was formally opened by Her Excellency Emily Summers, UK Deputy High Commissioner to Botswana and also addressed by senior DBF officers including Deputy Commander Major General Gotsileene Morake and Brigadier Mooketsi Kenneth Kethibogile, Director Communications and Information Systems.

Following the workshop, Fargani Tambeayuk, Senior Programme Officer, TSC, who represented the CTO, met with Onkokame Kitso Mokaila, Minister for Transport and Communication, Botswana. During the meeting, the Minister acknowledged the work the CTO has undertaken with the ministry and shared his ambition to ensure that Botswana fully leverages the benefits of ICTs.

During the mission Mr Tambeayuk also met with senior officials from the Ministry of Transport & Communications to discuss the National Cybersecurity Strategy, open data, data protection and privacy and development of the ICT strategy for the ministry. This mission in Botswana was a follow-up on the Critical Information Infrastructure Protection (CIIP) workshops held earlier in the year.

Nigeria

The focus of the work in Nigeria was to consult with stakeholders, including

the Ministry of Communications and the Nigerian Communications Commission, on implementing the cyberstandards project in Nigeria, which will create a pool of assessors to administer Cyber Essentials and the IASME Governance Standards in Nigeria.

While in Nigeria Mr Tambeayuk attended a Cybersecurity Strategy Workshop in Abuja, hosted by the Secretariat of the Economic Community of West African States (ECOWAS) and the US Department of State. The workshop was designed to assist ECOWAS Member States in developing, defining, and implementing a national Cybersecurity strategy, thereby building on ECOWAS' efforts to support a secure, open, interoperable, and reliable online digital environment. During the workshop, Mr Tambeayuk delivered a presentation on how SMEs can enhance operational resilience by implementing selected cyber standards.

Rwanda

In Rwanda the CTO delivered a two-day workshop on CIIP. Innocent Muhizi, Rwanda Information Society Authority (RISA), who represented the Ministry of Youth and ICTs, officially opened the workshop. During his opening remarks, Mr Muhizi stressed the need for Rwanda to have a robust and

//TECHNICAL SUPPORT & CONSULTANCY

resilient critical infrastructure in order to support essential services to the citizens of Rwanda. Present during the opening session was the UK High Commissioner to Rwanda, His Excellency William Gelling, OBE. In his remarks, the High Commissioner thanked the CTO for organising the CIIP workshop, which consisted of delegates from across multiple sectors in Rwanda.

During the workshop, participants learnt how to identify critical information infrastructure, the challenges of protecting critical information infrastructure and the threat landscape, the critical role cloud computing plays in CIIP, steps towards critical information protection and risk management of critical sectors. There was also in-depth discussion regarding the Cyber Maturity Model (CMM) for Rwanda.

Dr Martin Koyabe, Manager, TSC, and Anita Sohan, Senior Programme Officer, also held discussions with a number of senior officials in the MYICT and related agencies in Rwanda. These agencies included RISA, Rwanda Utility Regulatory Authority and the East African Communications Organisation.

Malawi

A similar two-day workshop on CIIP was also delivered in Malawi alongside consultations with stakeholders to finalise the CMM and National Cybersecurity Strategy for Malawi. The CIIP workshop was very well attended with over one hundred participants drawn from both the private and public sectors in Malawi, including senior officials from the Malawi Defence Force, the Malawi Communications Regulatory Authority (MACRA) and the Ministry of ICT. Francis Bisika, Deputy Director-General, MACRA, gave a keynote address and officially opened the workshop, which was also addressed by Hellen Chabunya, Head of Political & Public Affairs, British High Commission and Maganiza Chipula, Director, e-Governance, Ministry of ICT.

Dr Koyabe and Ms Sohan also held discussions with Justin Adack K Saidi, Secretary for Information and Communications Technology, senior officials in the e-government department in the ministry, the Reserve Bank of Malawi and private sector executives. The discussions focused on a

number of ICT issues, including capacity building, progress made in legislation and regulation of the ICT sector in Malawi and how to address challenges facing the ICT sector in Malawi. The CTO was pleased with the interest shown by the Reserve Bank of Malawi to commission a workshop on cybersecurity for the bank's board members and other officials in the financial services sector in Malawi.

"The range of stakeholders that attended the CIIP workshop is evidence of how seriously our member countries take their cybersecurity," said Dr Koyabe. "I am impressed with the dedication of our stakeholders and the progress cybersecurity has taken in our member countries in this month alone."

"The range of stakeholders that attended the CIIP workshop is evidence of how seriously our member countries take their cybersecurity"

Dr Martin Koyabe, Manager, Research & Consultancy Division, CTO

//EVENTS & CONFERENCES

Commonwealth Data Forum 2017

The CTO and the Ministry for Economic Development & Telecommunications, Gibraltar are to partner to develop the first Commonwealth Data Forum 2017. The inaugural event will take place in Gibraltar on 4 - 6 October 2017.

With the EU Data Protection Directive due to enter into force in May 2018, and as nations begin to focus their attention on the use of big data, this event will examine the issues of data protection and the use of data for government services and socio-economic development. It will also look at over-the-top services, the cloud and data centres.



Shola Taylor, Honourable Minister Bassano and Gilbert Peterson signing the host agreement for the Commonwealth Data Forum 2017.

Spectrum Management Forum 2017

Following the successful launch of this conference series in November 2016, the Commonwealth Spectrum Management Forum 2017 will take place in London, UK, on 25 - 27 October 2017.

This series has been developed to facilitate a more efficient use of the radio spectrum frequency in order to assist national economic development efforts. The advance of the Internet of Things, alongside ever increasing opportunities for

"The discourse and discussions on very pertinent spectrum issues were invaluablely beneficial"

2016 delegate

mobile data communications will result in increasing demand for spectrum, and the Commonwealth Spectrum Management Forum will examine the challenges involved in managing this demand. There will also be presentations on spectrum's role in broadband development, spectrum auctions, the efficient use of spectrum for universal access and preparations for the World Radiocommunication Conference in 2019.

Human Resources & ICT Forum 2017

The Commonwealth Human Resources & ICT Forum 2017 (HR&ICT), hosted by Telecommunications Services of Trinidad & Tobago, will take place in Port of Spain, Trinidad & Tobago on 14 - 15 November.

This annual event for human resource professionals will examine both the specialist human resource management needed in the ICT sector and the use of ICTs in human resources.

This year HR&ICT will focus on the impact of big data on human resource management, looking at issues such as how big data



impacts HR managers, big data security and the ethical challenges of using big data. Cloud services, social media for recruitment and modernising HR management will also be discussed.

"A wonderful learning experience. ICT and HR topics were very enlightening and appropriate for my organisation"

2016 delegate

Commonwealth Digital Broadcasting Caribbean Forum 2017

The Commonwealth Digital Broadcasting Caribbean Forum 2017, hosted by the Broadcasting Commission Jamaica, will take place in Kingston, Jamaica on 21 - 22 November 2017.

This event series has been designed to assist the broadcasting community transition from analogue to digital broadcasting and this event will focus on regional issues and opportunities in

the field of digital broadcasting in the Caribbean under the theme of Reinventing Broadcasting for a New Generation.

Key topics will include the current state of play for digital broadcasting in the region, international standards, investing in the digital market, policy and regulatory issues and digital radio and the agenda will also include digital switchover case studies within the region.



Kingston, Jamaica.

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//CAPACITY DEVELOPMENT

CTO delivers bespoke training courses for our members

Building on the success of the CTO's Programme for Development & Training (PDT), the CTO also offers a wide range of bespoke training courses for both members and non-members alike. The CTO's course catalogue features over one hundred courses on a wide range of subjects tailored to address the needs of today's ICT operating environment. Once an organisation has commissioned a course suitable for their training needs, the course is developed and tailored for them.

This month the CTO has delivered five bespoke training courses for two of our members. These include:

Introduction to Cybersecurity

For Agence Nationale des Technologies de l'Information et de la Communication
12 – 14 June, Yaoundé, Cameroon

This course introduced the importance of cybersecurity and current trends in the field. In the age of the Internet of Everything (IoE), the networked connections of people, processes, data, and things create a greater need for a robust security infrastructure. The network is used for everything from storing an organisation's confidential data, to storing personal financial and health information. This course was designed to equip the participants with a foundation of theoretical knowledge and practical experience of network and system security.

Critical Information Infrastructure Protection

For Agence Nationale des Technologies de l'Information et de la Communication
15 – 16 June, Yaoundé, Cameroon

The CIIP/cybersecurity course provided participants with the principles of data and technology that frame and define cybersecurity.

Participants gained insight into the importance of cybersecurity and the integral role of cybersecurity professionals. The interactive, self-guided format provided a dynamic learning experience where users explored foundational cybersecurity principles, security architecture, risk management, attacks, incidents, and emerging IT and IS technologies. It also examined how to protect the critical information infrastructure.

Regulatory Masterclass

For National Communications Authority of Ghana
19 – 23 June, Accra, Ghana

The Regulatory Masterclass provided delegates with an in-depth knowledge of the principles of regulation and regulatory models before examining key subjects such as licensing regimes, interconnection, numbering, spectrum management and universal service. The course also included a group case-study.

Cloud Computing

For Agence Nationale des Technologies de l'Information et de la Communication
19 – 23 June, Yaoundé, Cameroon

Cloud computing enables IT services and applications on demand with consumption based pricing, as a resilient service. Communicating over the Internet requires little or no client end components. Cloud computing provides resources and services to store data and run applications, from many devices, anytime and anywhere. The services can be scaled up and down, as needed to meet the customer's variable operational needs to ensure maximum cost efficiency. This workshop provided participants with the skills necessary to understand cloud computing, including

infrastructure, virtualisation, strategies, security, case studies and best practices.

Economic Regulation; Masterclass in Advanced Regulation

For National Communications Authority of Ghana
26 – 30 June, Accra, Ghana

Economic analysis lies at the heart of regulatory policy and is a prerequisite for effective regulation of the communications sector. Just as it shapes future policy and regulation, it also serves as the justification for existing frameworks as regulators seek to introduce competition where it has been lacking or address perceived market failures.

The Masterclass in Advanced Regulation focused on helping participants understand the core principles of economic regulation.

For more information on the wide range of bespoke training courses that can be provided by the CTO, please see the full course catalogue, available to download from: [//">http://www.cto.int/training/course-catalogue.//](http://www.cto.int/training/course-catalogue)



Upcoming courses...

DATE	COURSE	LOCATION
5 - 9 June	Broadband Pricing	Abuja, Nigeria
12 - 14 June	Introduction to Cybersecurity	Yaounde, Cameroon
15 - 16 June	Critical Information Infrastructure Protection	Yaounde, Cameroon
17 - 21 July	Commonwealth ICT Round Table 2017	London, UK
19 - 21 June	Performing a Regulatory Impact Assessment	Abuja, Nigeria
19 - 23 June	Cloud Computing	Yaounde, Cameroon
19 - 23 June	Regulatory Master Class	Accra, Ghana
26 – 30 June	Interconnection and Next-Generation Networks	Accra, Ghana

For more information on courses, contact us at programmes@cto.int

//MEMBER NEWS

CARIBBEAN

Jamaican Data Protection Act coming end of June

Minister of science, energy & technology, Dr Andrew Wheatley has said that the Jamaican Data Protection Act will be tabled in the Jamaican Parliament by the end of June 2017.

The act will safeguard the privacy of individuals' personal data in addition to governing the collection, regulation, processing, storage, use and disclosure of information.

Honourable Minister Wheatley noted that after a lengthy consultation process with multiple stakeholders, the legislation is "just about ready" to be presented into the Jamaican Parliament.

Trevor Forrest, a senior advisor in the ministry, explained the exigency of the act. "The Data Protection Act is important

because with the increased use of technology, especially digital and electronic communications, there has to be something in place that gives the citizen protection for personal, sensitive information."

While underscoring that collecting establishments will be held accountable for people's collected data, Mr Wheatley assured that the penalties will be reasonable.//



ASIA

Pakistani Minister of Information Technology chairs meeting of Executive Council Forum



The first meeting of the Executive Council Forum to boost Pakistan's IT exports was held on 8 June 2017. The meeting was chaired by Minister of State for IT, Anusha Rehman Khan, and was attended by high-level delegates from both the public and private IT sectors of Pakistan.

The minister explained that the multi-stakeholder high-level Executive Council Forum (ECF) was constituted to develop new ways to increase IT and information technology enabled services exports, as part of the government economic growth agenda for 2017.

The minister outlined a progressive budget for the information technology sector of the country at the forum. She stated that the main highlight of the new federal budget is the exemption of income tax for new tech companies based in Pakistan for three years. She further added that there is zero income tax on IT exports until June 2019 to boost the local Pakistani IT industry.

The Minister of State for IT highlighted that the ministry is in the process of initiating national level digital skills training programs for one million individuals who will be trained in next five years.//

AFRICA

Rwanda and Korea to enhance bilateral ties

The prime minister of Rwanda, Anastase Murekezi, has expressed his appreciation to the Republic of Korea for their continued assistance to the government of Rwanda in ICT capacity building. As a demonstration of the importance of ICT development in Rwanda, this was a key issue raised during a meeting between the prime minister and His Excellency Kim Eung-joong, Ambassador of the Republic of Korea to Rwanda.

The Korean International Development Agency currently supports 17 projects in Rwanda, including technology training, and the two officials also discussed further support for Rwanda to develop its ICT infrastructure.

The meeting took place as Rwanda released its national data revolution policy – a framework designed to ensure Rwanda attains a data innovation industry for accelerated socio-economic development. The policy has been developed by the Ministry of Youth & ICTs within the context of the Smart Rwanda 2020 Master Plan and will be supervised by the National Institute of Statistics.//

Safaricom: the most advanced network in Africa



Safaricom has rolled out 4G+ services in major towns on its network, advancing its 4G proposition in Africa.

The development follows sustained investments by Safaricom in building a robust digital network that can enable its customers to browse faster as well as enjoy improved voice services.

"These faster speeds not only benefit the customer, they also empower small businesses who can now use the internet for more commercial activities," said Bob Collymore, Chief Executive Officer, Safaricom.

The new technology builds on the growing footprint of Safaricom's 4G network, which has been activated on over 1,100 sites across Kenya. Already, Safaricom has activated 100 4G+ sites in Nairobi, Mombasa, Kisumu, with more territories scheduled to be switched on in upcoming months.//

Conference
&
Exhibition

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