



ITU Regional Training Workshop on IPv6 and IoT Strategy, Policy, and Implementation for Arab

States

Khartoum-Sudan, 31 May-02 June 2022 (Hybrid)

09:00-15:00 (Khartoum Time)

Objective:

The training workshop are aiming to assist Member States by supporting smooth and well managed transition from Internet Protocol version 4 (IPv4) to Internet Protocol version 6 (IPv6) for Internet of Things (IoT) infrastructure, IPv6 for 5G, IPv6 for Industry 4.0, DNSSEC for IoT Security, services, and applications deployments, raising awareness through conducting theory and practical sessions. The training workshop is being organized with support of ICANN, ISOC and RIPE NCC.

Target population:

This training workshop is recommended for policy makers, regulators, IPv6 practitioner, IT managers, IoT designers, IoT developers, IoT implementers and anyone who is ready to master the steps or acquire policy strategic knowledge required to implement IPv6 and IoT based Networks.

| | Morning Session (9 am to 12 pm) | Lunch Break | Afternoon Session (1 pm to 3 pm) |
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| Day1 (Tuesday 31 May) Setting the Scene | 0900-09:25Opening Remarks from ITU and partners: Mr. Adel M. Darwish, Regional Director of ITU Arab Regional Office Eng. Hisham Ibrahim, Chief Community Officer, RIPE NCC Baher Esmat Vice President, Stakeholder Engagement - Middle East and Managing Director Middle East and Africa, ICANN Ms Nermine El Saadany Senior Policy Advisor for the Middle East Region, ISOC | 12:00-13:00 | 13:00-14:00 National IPv6 Deployment Cases Eng. Musaab AlAmmar Internet Services Development Department, CITC-Saudi Arabia Eng. Ahmed Atya Director, Numbering and Licensing Department, TPRA-Sudan Eng. Meshal Al Mheiri Manager, Digital Policies Development, TDAR -UAE 14:00-15:00 Examples of industry of IPv6 Adoption and IoT Applications (Use cases) Mr Ramesh R Chandra Reliance Jio Infocomm Limited (RJIL) Experience-India |

Draft Agenda

| | Eng. Mohamed EL Kamil, Acting Director General of TPRA-Sudan 09:25-09:30 Group photo 0930-10:00 Coffee break 10:00-12:00 Setting the context Why IPv6? Eng. Salih Shihab Eldin Mahmoud ITU Expert Status of IPv6 in the Arab region, Dr Chafic Chaya Regional Communications Manager, Middle East, RIPE NCC IPv6 transition strategies and technologies, Eng. Intisar Alhaj ITU Expert ITU activities on IPv6, Dr Walid Mathlouthi Head of Futrue Network and Spectrum Disvison, ITU IOT policies and strategies, Dr Navaneethan C. | | Mr George Bratoveanu Technical Director Jordan European Internet (JCS) Eng. Hanadi Abdelrahman Senior Professional, Network and Transport Dept, SUDATEL Eng. Jamil Toukan Manager, IP Core and Transmission Network, Orange Jordan |
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| Day 2 (Wed 1 June) Technical Sessions | 09:00-11:00 IPv6 fundamental including IPv6 best practices and deployment Eng. Jad Elcham Learning and Development Program Manager, RIPE NCC 1100-11:30 Coffee break | 12:00-13:00 | 13:00-13:45 DNSSEC for IoT Security Mr Paul Muchene Technical Engagement Specialist, Middle East and Africa, ICANN Mr Yazid Akanho Technical Engagement Specialists for the Middle East and Africa, ICANN |
| | 11:30-12:00 Best practices for deploying IPv6 on your network, Dr Navaneethan C. Arjuman ITU Expert | | 13:45-14:30 Building IXPs and connectivity Mr Hanna Kreitem Senior Technical Advisor, ISOC 14:30-15:00 |

| | Network security evaluation for IPv6 deployment, Eng. Hiba Alamin ITU Expert | | Hands-on Labs Configuring BGP4+, Eng. Salih Shihab Eldin Mahmoud, ITU Expert Demonstration of several IPv6 attacks, Eng. Mohamed ABDELHAFEZ FADUL ITU Expert |
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| Day 3 (Thu 2 June) Technical and Practical | 09:00-12:00 IoT Fundamental Trainers: Dr Navaneethan C. Arjuman ITU Expert Eng. Sara Moahmed ITU Expert Eng. Intisar Alhaj ITU Expert IoT Concepts and Terminologies ✓ IoT Concepts and Basic Building Block of IoT ✓ Architecture ✓ Enabling Technologies of IoT ✓ IoT Security and Top Governance Issues ✓ IoT Case Studies and Future Predictions | 12:00-13:00 | 13:00-14:00 IoT Security Trainer: Dr Navaneethan C. Arjuman ITU Expert ✓ IoT Security Overview ✓ Baseline Policies for IoT Security ✓ IoT Vulnerabilities ✓ IoT Endpoint Security Guidelines ✓ IoT Security Recommendations 14:00-15:00 Hands-on Labs Eng. Mohamed ABDELHAFEZ FADUL ITU Expert Setup the testbed for IoT AUTOMATIC WATERING PLANT SYSTEM using the Arduino IoT software and hardware WiFi for IoT security test |