Addressing the Barriers to IPv6 Adoption – Resources for Member States

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Reminder – Meeting Purpose

This workshop aims at identifying barriers to IPv6 deployment, discussing possible solutions based upon lessons learned from first-mover Member States.

Context – Pilot Project

- ISA2 had a previous project that piloted Ipv6 deployments in a select set of Member States

- Part of that project – called GEN6 – was building training / education / case study materials that would help Member States as they considered IPv6 deployment

- The GEN6 materials are still online and available at:

  - http://www.gen6-project.eu/

Materials from this Project

- This is an implementation project focused on the technology transfer that:

  - Helps provide documentation for starting an IPv6 transition

  - Explains mechanisms for acquiring IPv6 addressing

  - Describes implementation plans that vary based on the size of the Public Administration

  - Provides the basics of building IPv6 addressing plans for a new or existing network

  - Describes approaches to IPv6 deployment planning

- These materials are available from the project website at:

  - http://ipv6gov.eu/

Synthesis of the Status of IPv6 in Europe MS

- Specifically: a comprehensive examination of IPv6 deployment in public administrations

- Based on research conducted in October 2017 to March 2018

- Comprehensive: attempts were made to interview every European MS

  - From largest to smallest

- Data provided includes projects underway, key stakeholders and how the MS is doing regarding IPv6 deployment

- Also provides key observations about trends in IPv6 deployment in public administrations

- Helps identify those countries that have had success in deployment

  - With the possibility of learning how to overcome barriers to deployment

Guidelines and Process

- Guidelines and Process: IPv6 for Public Administrations in Europe

  - IP Addressing Basics

  - Host Addressing Assingment

  - Why is IPv6 Diffeeent for Public Administrations

  - Planning the Public Administration Deployment

  - IPv6 Subnetting

  - Getting IPv6 Addresses

  - IPv6 Address Maintenance

  - RIPE Requirements for IPv6 Compliance (RIPE-554)

  - Special Use IPv6 Addresses

Technical Profiles

- Technical Profiles: IPv6 for Public Administrations in Europe

  - Planning for IPv6 in Public Administrations

  - Transition Approaches and Technologies

  - Existing Profiles from other Countries

  - Profiles for IPv6 Hardware

    - Fundamentals

    - Edge Systems and Mobile Devices

    - Routers

    - Infrastructure Networking

    - Management Devices

IPv6 Address Acquisition in Europe

- A short guide for public administrations on how to obtain IPv6 addresses

- Covers types of addresses to be acquired

- Then examines

  - Getting IP addresses from upstream providers including national services

  - Becoming an LIR in the RIPE region in Europe

    - Step-by-step description of the process

    - Likely results

    - Examination of the growth of LIRs in the RIPE region

  - Intended as a short guide to IPv6 address acquisition

    - Non-technical approach to the subject matter

Summary of the First Part of this Project

- An interim report on the first two phases of this project and a description of what is yet to come

- Written at a very high level

  - Non – technical

- Fulfills a requirement of the project, but provides the non-technical reader an overview of the results leading up to the first workshop

Resources for the Future

- Meeting report from this workshop will be produced and made public as soon as possible after the workshop

- Training materials for future workshops will also be made available

- In the future, as other materials are developed

  - They will be made public on the project website

  - Along with the descriptions of the content and purpose of those new materials

- Final project report and presentation will also be made public through the project website

- Along with our project, there are many other resources for IPv6 transition and deployment

  - Very few are targeted specifically at public administrations

  - Few deal with the specific barriers that confront public administrations

  - Many are built to motivate private sector transition

Questions?